



USAF BIOENVIRONMENTAL NOISE DATA HANDBOOK

Volume 166

AF/M32T-1 Tester, Pressurized Cabin Leakage, Aircraft

July 1982

FILE COPY

Approved for public release; distribution unlimited.



AIR FORCE AEROSPACE MEDICAL RESEARCH LABORATORY AEROSPACE MEDICAL DIVISION AIR FORCE SYSTEMS COMMAND WRIGHT-PATTERSON AIR FORCE BASE, OHIO 45433



E

82 08 09 131

NOTICES

When US Government drawings, specifications, or other data are used for any purpose other than a definitely related Government procurement operation, the Government thereby incurs no responsibility nor any obligation whatsoever, and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data, is not to be regarded by implication or otherwise, as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

Please do not request copies of this report from Air Force Aerospace Medical Research Laboratory. Additional copies may be purchased from:

National Technical Information Service 5285 Port Royal Road Springfield, Virginia 22161

Federal Government agencies and their contractors registered with Defense Technical Information Center should direct requests for copies of this report to:

> Defense Technical Information Center Cameron Station Alexandria, Virginia 22314

TECHNICAL REVIEW AND APPROVAL

AMRL-TR-75-50, Vol. 166

This report has been reviewed by the Office of Public Affairs (PA) and is releasable to the National Technical Information Service (NTIS). At NTIS, it will be available to the general public, including foreign nations.

This technical report has been reviewed and is approved for publication.

FOR THE COMMANDER

HENNING LY VON GIERKE, Dr Ing

Director

Biodynamics and Bioengineering Division

Air Force Aerospace Medical Research Laboratory

Her E. van Ceile

REPORT DOCUMENTATION PAGE	READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER AMRL-TR-75-50, Vol. 166 2. GOVT ACCESSION NO. AII 7 95 0	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle)	5. TYPE OF REPORT & PERIOD COVERED
USAF BIOENVIRONMENTAL NOISE DATA HANDBOOK:	Volume 166 of a series
AF/M32T-1 Tester, Pressurized Cabin Leakage, Aircraft	6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(*) Thomas H. Rau, 1/Lt, USAF, BSC	B. CONTRACT OR GRANT NUMBER(*)
9. PERFORMING ORGANIZATION NAME AND ADDRESS Air Force Aerospace Medical Research Laboratory	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
Aerospace Medical Division, Air Force Systems Command, Wright-Patterson AFB, OH 45433	62202F 72310714
11. CONTROLLING OFFICE NAME AND ADDRESS Same as above	12. REPORT DATE
Sume as above	July 1982 13. NUMBER OF PAGES 53
14. MONITORING AGENCY NAME & ADDRESS(if different from Controlling Office)	15. SECURITY CLASS. (of this report)
	Unclassified
	15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
16 DICTRIBUTION STATEMENT (of this Person)	

Approved for public release; distribution unlimited

17. DISTRIBUTION STATEMENT (of the ebstract entered in Block 20, if different from Report)

18. SUPPLEMENTARY NOTES

19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Noise Noise Environments Bioenvironmental Noise Ground Support Equipment AF/M32T-1 Tester, Pressurized Cabin Leakage, Aircraft

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

The AF/M32T-1 tester is a gasoline engine driven cabin leakage tester designed to furnish pressurized air to the aircraft at controlled pressures and temperatures during ground pressurization of aircraft cockpits and pressurized This report provides measured and extrapolated data defining the compartments. bioacoustic environments produced by this unit operating outdoors on a concrete apron at normal rated conditions. Near-field data are reported for 37 locations in a wide variety of physical and psychoacoustic measures: overall and band sound pressure levels, C-weighted and A-weighted sound levels, preferred

PREFACE

This report was prepared by the Biodynamic Environment Branch, Air Force Aerospace Medical Research Laboratory, under Project/Task 723107, Measurement and Prediction of Noise Environments of Air Force Operations.

The author gratefully acknowledges Mr. John N. Cole for his assistance in preparing this report, Mr. Robert G. Powell for his assistance in acquiring the raw data, Mr. Henry T. Mohlman and Mr. Fred D. Lampley of the University of Dayton for their assistance in the mechanics of data processing, and Mrs. Norma J. Peachey who typed and prepared the graphics.

Accession For	
NTIS GRA&I	
DTIC TAB	ĺ
Unonneuviced 🔲	1
Justification	1
	1
Ву	ł
Distribution/	ł
Availability Codes	}
Avail and/or	1
Dist Special	1 /
A	(



Table of Contents

T \ 1	(MDODIJOMON)	Page
	TRODUCTIONEAR-FIELD NOISE	3
	AR-FIELD NOISE	4 5
I A	WEIGHT HOUSE	J
	List of Tables	
NI	EAR-FIELD NOISE	
1. 2.	Measured Sound Pressure Level	4
	1/3 Octave Band	6-8
_	Octave Band	9-11
3.	Measures of Human Noise Exposure	12-14
FA	AR-FIELD NOISE	
4.	Measured Sound Pressure Level	
	1/3 Octave Band	15-16
	List of Figures	
NI	EAR-FIELD NOISE	
1.	Measurement Locations	17
FA	AR-FIELD NOISE	
1.	Measurement Locations	17
2.	Normalized Noise Levels	18-19
3.	Overall Sound Pressure Level — Contours	20-21
4.	C-Weighted Sound Level — Contours	22-23
5.	A-Weighted Sound Level — Contours	24-25
6 .	Perceived Noise Level — contours	26-27
7.	Speech Interference Level — Contours	28-29
8.	Permissible Exposure Time — Contours	30-31
9.	Octave Band Sound Pressure Level — Contours	32-49

INTRODUCTION

The AF/M32T-1 is a gasoline engine-driven cabin leakage tester designed to furnish pressurized air to the aircraft at controlled pressures and temperatures during ground pressurization of aircraft cockpits and pressurized compartments. This unit is manufactured by the Sprague Engineering and Sales Company.

This volume provides measured and extrapolated data defining bioacoustic environments produced by this unit. Such data are essential to evaluate ear protection requirements, limiting personnel exposure times, voice communication capabilities, and annoyance problems associated with operations of the AF/M32T-1 tester.

This volume is one of a series published by the Air Force Aerospace Medical Research Laboratory (AFAMRL) under the same report number (AMRL-TR-75-50) as a multi-volume handbook that quantifies the noise environments produced at flight/ground crew locations and in surrounding communities by operations of Air Force aircraft and ground support equipment. The far-field, community-type, noise data in the handbook describe the noise produced during ground operations of aircraft, ground support equipment, and other ground-based equipment or facilities.

Volume 1 of this handbook discusses the objectives and design of the handbook, the types of data presented, measurement procedures, instrumentation, data processing, definitions of quantities, symbols, equations, applications, limitations, etc. Refer to Volume 1 (reference 1) for such information because it is not repeated in other handbook volumes.

A cumulative index lists those aerospace systems contained in the handbook, and indentifies the specific volumes containing each type of environment noise data available (i.c., inflight/flight crew and passenger noise, near-field ground crew noise, far-field/community noise). Volume numbers are assigned sequentially as individual volumes are published. This index is periodically updated as individual volumes are published and is available upon request from AFAMRL/BBE, Wright-Patterson AFB, OH 45433. Organizations on the distribution list for the handbook will automatically receive a copy of each updated index as it is generated.

Direct any questions concerning the technical data in this report and other handbook volumes to: AFAMRL/BBE, Wright-Patterson AFB, OH 45433; AUTOVON 78-53675 or 78-53664; Commercial (513) 255-3675 or (513) 255-3664.

Cole, John N., USAF Bioenvironmental Noise Data Handbook, Volume 1: Organization, Content and Application, AMRL-TR-75-50(1), Aerospace Medical Research Laboratory, Wright-Patterson Air Force Base, Ohio, 1975.

NEAR-FIELD NOISE

MEASUREMENTS

A standard AF/M32T-1 tester was operated outdoors on a concrete apron at a normal rated condition of 2,400 RPM with no significant sound-reflective surfaces present except the ground plane. Table 1 notes the surface meteorological conditions at the time of measurement.

Figure 1 identifies 72 noise measurement locations at a height of 1.5 meters above the concrete apron (nominal ear level of ground crew). The O degree reference direction passes through the tow bar. The 36 locations on the two inner circles are in the acoustic near-field of the source where the sound wave fronts generally do not spherically diverge and the source appears to be spatially distributed (i.e., not a point source). Consequently, these near-field data cannot be extrapolated to longer distances but do properly define the levels at locations close to the unit.

Near-field measurements were also made at ear level at the operator control panel. Table 1 lists the numeric/alphabetic designator used on the data pages in this report to identify the operator measurement location and test condition. The designator 1/A means operator location 1 and test condition A. Such a descriptor is essential in many handbook volumes that involve multiple combinations of locations/conditions. It is used in this report to maintain format consistency.

RESULTS

The measured data presented in Table 2 define the sound pressure levels (SPL) produced by the AF/M32T-1 unit at the 37 specified, near-field locations. This table includes the overall, 1/3 octave band, and octave band levels. From these data one can calculate the variety of measures in Table 3 which are widely used to assess the effects of noise on personnel and their performance.

For data at other intermediate near-field locations (i.e., for radial distances less than 10 meters) you can interpolate between the 72 measured data points. All near-field data are for the meteorological conditions at the time of test but are valid for all typical airbase meteorology because of the short distances over which the sound is propagated.

TABLE 1

MEASUREMENT LOCATIONS AND TEST CONDITIONS FOR OPERATOR NOISE MEASUREMENTS

AF/M32T-1 Tester, Pressurized Cabin Leakage, Aircraft
Tyndall AFB, 19 June 1980
NSN 4920-00-347-9455, Field # J108

Measurement Location	
1	Operator Control Panel
Operation	
A	2400 RPM
Meteorology	
Temperature	29 °C
Bar Pressure	.761 M Hg
Rel Humidity	69 %
Wind - Speed	3.1 M/Sec (6 Kts)

FAR-FIELD NOISE

MEASUREMENTS

Noise Measurements were also made on the same AF/M32T-1 unit under the same test conditions at the outer circle locations on Figure 1. These 36 locations are in the acoustic far-field of the source where the sound wave fronts spherically diverge and the unit may be regarded as a point noise source. Under these far-field conditions, the measured data can be extrapolated to longer distances.

RESULTS

Table 4 lists the overall and 1/3 octave band SPL measured at the 36 far-field locations under the meterological conditions at the time of the test. These data were normalized to 10 meters distance and standard meteorological conditions (15C temperature, 70% relative humidity, 0.760 meter Hg barometric pressure) and used to derive the graphic data in Figure 2 which provides a compact summary of the farfield noise characteristics of the AF/M32T-1 tester in a standard format.

These measured data were also used to derive sets of equal noise contours (Figures 3 through 9) describing seven different measures of noise as a function of angle and distance from the souce for standard day meteorology. Not the Figure 8 contours identify limiting exposure times for personnel. Missing data points on any of the contours are the result of eliminating measured data which contained excessive influence of spurious background noise present at the time of measurement. In some cases contour levels at these missing data points were estimated and indicated with dashed lines.

AT IONE) -	2 t 0	V 60 0	J T W	72	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	921	5 M N	W W #	2 2 2 5	22	71
	0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	220 A	75 P S	7 7 6	77	22.	22	222	72	2 2 2	7 7 8	72 68
) IDENTI	25 JEST 1 PAGE	200 A	M 60 6	76 76	79	27.2	22.2	222	73	125	72	70
		3	440	* * * *	60 80 8	9.4 9.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8	92	222	72.	110	6.9 6.9	66 53
1		160 A	7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	113	0 0	\$ 10 K	92	* 2 2 2 * 2 2 2	72	:22	7 0 69	65
		140 A	700 S	:22	80	3 6 6	122	222	22	72.	70 69	68 65
		17 ION 120 180	Ø ↑ 30 4	22.2	8 8 0	n 80 60	223	22.2	10 10 N	22	7 68	67
		OCATION/CONDITION 4 4 4 6 8 8 10 120 A A A A A A	716 89	3 6 6 6 6 7	78	2 6 C	222	222	~ ~ ~	722	72	6 6 6 4
		CATION 4 80 A	71.< 90	* 0 0 0 0	81	183	221	223	73	12.2	70 69	63
		*664	9 1	0 00 00 00 00	85 7.0	2 2 2	22:	222	72	122	69 99	99 99
(60)	* X	3 3 4	934	9 4 6	8 8 2 1 1 2 1	2 7 2	221	222	70	7.1 69	6.8 66	66 61
יבאפר	PERATIONS 2400 RPM	30 A	76<	0 7 80 3 4 4 0	80 80 I	25.2	52	22.2	2 <u>2</u> 2	11.69	6 6 5 5	64 61
TRE S SURE	9	304	× 22	828	833	222	さま	222	2 R z	: g	& & &	63
E BAND	BJECT: STER SABIN SRAFT SISE LEVELS	O O H										
2 1/3 OCTAV	N H O H S		м 4 м ф а 4 с с м с й	100 125	160 200	315 315 400		1000 1250	1600 2000 2600	3150	5000 6300	000

< LEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.</pre>

131	MEASURED SOUND PRE	PRES SURE	LEVEL	(00)					•			LIDEN	IDENTIFICATIONS	TIONS	•
7					1) OMEGA	A G	2	•
NOISE	SOURCE/SUBJECT :			I NO			~ -					S S	02	•	•
AF/M321-1 ES ER PRESSURIZED CABI	AF/MSZI-1 IESIER Pressurized cabin		0042	Į.								. 25	JAN 82		
I LEAKAGE,	LEAKAGE, AIRCRAFT NEAR FIELD NOISE LEVELS	- -					^^								
		į .			•	LOCATION	NICONDIT								î ^ '
FRFO	DISTANCE (M)->	5	280	300	320	340	v =	20	V 4	2 9	N 60	100	120	2 4 1	^
(HZ)	NO	A	A	4	A	4	• •	₹	A	A		₹	4	⋖	
25														81<	` ^
31.5							76<	S	75<					784	^
0.4							75<	73<	75<	73<				81<	^
05		75 <	76<	76<	76<	78 <	83	82	81<	1 8<	76<	734	75<	77<	^
		87	88	83	91	95	101	66	92	35	90	69	89	91	^
08		80 <	81	83	4	98	95	93	90	87	9	40	€	82	^
100		2	~	73	2	22	6	6 9	M) (93	60	95	80	48	_
125		2	79	6 (82	60	66	26	۰ ا	13.	ர ஐ	30 f	87	9 (_ '
160		9 :	92	48	90	85	9 6	76	91	96	ص د د	6	62	85	
002		٥;	2 6	Σ;		20 €		- - -	÷ 0	٠ و م	0 1	o 0	ю с 0 с	D 4	
		. 9	2 4	S 4	* *	9 2	† u	7 6	1 6	6 0	0 °	o ~	o 6	# C	_
		7.2		2 2	2 5	2 12	0 60	9 60		8 1	, eo	, e0	V #0	0 00 00	` ~
200		22	7	23	7.	2	8 2	79	8	7.0	2	4.6	60	8	^
630		73	1.	74	75	76	8 0	82	80	79	8 3	81	81	4	^
900		Ž	75	75	15	26	6 1	81	81	7.8	79	4	80	81	^
1000		7.	73	73	7.	22	86	87	4	1 6	78	48	4	49	
1250		7.	72	4	73	7.	8	8	9	12	1	9	92	11	
1600		22	23	74	2	* i	2 8	9 2	2	9 [22	9	22	80 I	^
2000		ŧ i	2	.3	72	2 :	I	5 !	<u> </u>	<u>.</u>	2	2:	2;	۲:	^ ′
0.052		٤ ;	Ž.	* 1	27	₹ (2	2	۱ ک	* i	٤	::	10	:	^ ′
3150		Ż i	9	9 ;	72	2	42	22	*	*	9 1	<u> </u>	9 1	7.7	^
0004		t	75	76	72	69	73	7.3	73	2	2	22	2	9	
2000		73	22	75	71	89	7.7	2	73	73	2	9/	77	75	_
6300		71	7.	72	7.0	29	7.1	0 2	7	71	*	*	2	4	^
9000		2	Z	71	7.0	9	7.0	69	0 /	20	7	7.5	2	S	^
10000		9	67	9	99	6 2	99	99	29	99	29	8	69	0	~ ~
OVERALL		91	91	92	93	36	105	103	100	86	96	96	96	46	•
)			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,											1	î

.E1	MEASURED SOUND PRESSURE	SSUR	E LEVEL	(08)) IDENTIFICATIONS	-
7												3.2	<u> </u>
NOISE SOURC	SOURCE/SUBJECT:	- - ,	OPERATION 8	1 NO	; ; ;		-	! ! !				-)	
AF/M321-1 LESTER PRESSURIZED CABI	PRESSURIZED CABIN) 25 JAN 82	
LEAKAGE,							~					1	~
NEAK FIEL	LU NOISE LEVELS	-		1			^ ;		1			PAGE FS	^
			! !			OCATION		CONDITION			:		-
FRED	ANGLE (DEG)>	160	180	200	220	240	260 260	280	300	320	34.0	TEST CONDITION	- ~
(HZ)	CONDITION	4	A	A	⋖	4	4	•	4	•	,	1/A	~ -
25		79.											-
31.5		76	75<	74<			744				77		_
0 7		75<								73<	78<	75<	^
50		76 <	17<	75<	76<	78<	784	1 8<	19 <	81<	8 2	79<	
€3		91	91	88	96	98	86	88	95	3 6	66	80	_
9 0		85	48	82	9 0 9	79<	80.0	82	90	90	9 ₹	88	^
100		11	78	7.8	48	4 8	7.7	11	8	\$	18	# \$	
125		87	96	96	90	96	eo (ტ (დ (35	35	60 I	£ 66 €	_ (
160		82	8 0	80	82	96	8 4	87	0	35	95	06	^
200		80	86	62	ري ا ري	9 (φ (φ ς :	9 1	9 9	0 .	50	^
0 47		ድ የ	t	C) (<u> </u>	٥ ٢	٥	?;	2;	æ ç		ri (~ 1
315		6	٠ د د	- •	Σ;	τ:	3 6	:	- c	? :	> c	ν •	
- c		ο α	20 8	, c	0 4	1 0	r 0	1 0	9 6) () ()	0 44 0 44	•
930		86	7 4	3.6) M	2 2	. 2	7.2	80	4 6	8 6) (0	` ^
800		8	7.8	80	7.8	79	6.2	78	0 80	8	8	40	^
1000		79	7.8	7.9	7.8	81	8	83	83	63	43	85	^
1250		75	75	76	70	11	11	9.4	7.7	7.8	79	85	^
1600		75	7.7	92	11	77	78	7.8	7.7	78	٠ م	85	$\hat{}$
2000		76	43	11	77	79	62	78	92	11	7.9	36	^
2500		11	11	7.8	7.7	80	85	43	22	92	76	87	
3150		75	7.7	7.8	80	82	∞	81	77	16	92	0.6	$\widehat{}$
0000		75	92	7.8	90	81	91	80	11	75	75	91	_
5 0 0 0		7.	75	77	79	79	4	80	22	52	%	Ø :	
6300		73	7.3	9,	7.7	77	22	77	9	*	7	99	
9000		ţ.	4 /	9.	77	1 9	9/	9/	*	~ 3	0 /	> 0	
0000		69	71	9.	15	73	<u>ه</u>	73	7.1	7 0	99	£ 90	
OVERALL		λ. 35	96	95	95	96	95	96	36	100	103	101	_
				1 1 0 0 1 1					******				î

TABLES	MEASURED SOUND PRESSURE LEVEL (08)	SSUR	E LEVEL	(08)	! ! !) IOEN	IDENTIFICATIONS	TIONS
7	C MAC DANC	1									1	OME	ONEGA 3.2	2
NOISE SOURCE/SUBJE	SOURCE/SUBJECT:	~	OPERATI	0N1			^					SES SES	010	
AF / M 32T -	AF/H32T-1 TESTER	~	2400 RPH	RPH			^					~		
PRESSURI	ZED CABIN	_					^					25	JAN 82	
LEAKAGE,	LEAKAGE, AIRCRAFT	_					^					_	!	
NEAR FIE	LD NOISE LEVELS	-		!			^) PAG	E 11	
! ! ! ! ! !	· · · · · · · · · · · · · · · · · · ·		 	 		OCATIO	CACOND	LITON	! ! !	1 1 1 1	• • • •			
	DISTANCE (M) ->	4	.	4	÷	#	2 2	4		4	.#	*	•	*
FREQ	ANGLE (DEG)>	0	20	0 +	9	80	100	120	140	160	160	200	220	240
(HZ)	CONDITION>	⋖	⋖	⋖	⋖	⋖	⋖	⋖		⋖	⋖	⋖	⋖	⋖
31.5														
63		8	93	95	35	91	06	90	91	91	91	8	88	87
125		87	86	86	98	85	84	83	83	83	83	82	8	79
250		ŧ	48	63	81	83	82	82	83	83	82	82	91	80
200		2	7.8	79	90	80	82	82	82	82	4	82	8	80
1007		78	90	7.7	7.8	79	7.8	4	7.8	77	11	78	9	77
2000		77	7.8	92	75	77	77	7.8	77	77	92	77	77	28
0004		22	7.4	74	22	92	92	22	26	75	75	77	7.8	49
8 00 0		29	68	7.0	71	72	73	7.1	72	72	7.1	7.4	76	7.5
OVERALL		8	95	† 6	3 6	93	95	95	8	93	93	36	91	86
		-		1 1 1										

1 A B L E 1	MEASURED SOUND PRESSURE LEVEL (DB) OCTAVE BAND	ESSUR	: LEVEL	(08)) IDEN	IDENTIFICATIONS OMEGA 3.2	TIONS
NOISE SOURCE/SUBJE NOISE SOURCE/SUBJE PRESSURIZED CABI LEAKAGE, AIRCRAF NEAR FIELD NOISE	NOISE SOURCE/SUBJECT: AA/H32T-1 TESTER PRESSURIZED CABIN LEAKAGE, AIRCRAFT NEAK FIELD NOISE LEVELS		OPERATIONS 2400 RPM	M M			2000				f ! ! !	-) TES) RUN) 25) PAG	TEST BA-000-091 RUN 02 25 JAN 62 PAGE J2	8 0 1 0 0
FREQ (HZ)	DISTANCE (M)-> ANGLE (DEG)> CONDITION>	260 A	280 A	300 300 A	3.20 3.20 A	OCATIO 340 A	N / C ON	LOCATION/CONDITION 4 2 2 2 2 340 0 20 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	N 4 6.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	2 100 A	128 A	2 T A A
31.5		88	89	06		93	78 102	100	7.8 96	93	91	96	99	92
125 250		8 1 8 1	8 0 0 0	82 81		96 94	101 93	99 91	96	9 7 93	9 6 4 6	91 95	4	69 94
50 0		87 84	80 78	79		80 62	80 80 4 80	8 8 8 8	8 8 7	85 81	8 3 3 3	80 80 30 50	36	8 8
2000		22	80 0	80	77	: 22	48 7	6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	81	78	8 80 1 00	9 9	8 8 8	82 94 14
8000 OVERALL		₹ 5	22	75		2 8	4 6	47	*	* 0	76	22	82	77

ABLES O	MEASURED SOUND PRESSURE LEVEL (08) OCTAVE BAND	SSUR	E LEVEL	(08)) IDENTIFICATIONS) OMEGA 3.2
NOISE SOURCE/SUBJE NOISE SOURCE/SUBJE PRESSURIZED CABI LEAKAGE, AIRCRAF NEAR FIELD NOISE			OPERATION:	 2				! ! !	; ; ;) REST BA-000-001) RUN 03) 25 JAN 82) PAGE J3
FREQ (HZ)	DISTANCE (M) -> ANGLE (DEG)> CONDITION>	160 A	180 180	200 A	220 A	LOCATION/CONDITION 4 2 2 2 2 2 2 2 4 0 26 0 28 0 A A A A A A A A A A A A A A A A A A	N/COND 2 260 260	ITION 2 280 A	300 A	320 320	340 A	OPERATOR LOCATION TEST CONDITION 1/A
31.5		82 92	95	89	87	87	87	68	£6	26	100	ci or
125		89	60	69	68	6	91	91	46	4	100	. so
200		80 80 80 80	80 60 87 60	8 8 9	86 86	≿ 80	₽ 60 83 €	80 80 90 3*	~ 4 ⊕ •	86 86	9 7 17 17	91 91
1000		36	89	83	82	48	4	82	96	86	85	89
2000 4000		79	8 8 2 4	8 2 2 2 3 3	% % %	8 8 5 6 7	8 8 6 9	& & ™ ™	8 3 2 2	6 8 0 8	8 2 7 3	91 95
0000		2	7.8	81	81	90	90	80	62	11	4.2	26
OVERALL		98	96	95	95	36	95	96	86	100	103	101

BLE: MEASURES OF HUMAN	NOI SE	w	URE) IDENTI	F 7	ATION!
NOISE SOURCE/SUBJECT: AF/M32T-1 TESTER PRESSURIZED CABIN	-	OPERATIONS 2400 RPH	N M		; ; ;		! ! ! !		, , , , ,	! !	RUN RUN 25 J	55 z	8.2
LEAKAGE, AIRCRAFT NEAR FIELD NOISE LEVELS						~ ~						I H	
DIST	> 0¢	4 P D	2 4 4	4.0€	LOCATIC 80 A	100N	OCATION/CONDITION 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	44 44 40	16.0 A	4 6 4 0 4	\$0 4	220 A	2 t t
HAZARD/PROTECTION C-WEIGHTED OVERALL SOUND A-WEIGHTED OVERALL SOUND HAXIMUM PERMISSIBLE TIME NO PROTECTION	LE TE		(OASLC IN (OASLA IN MINUTES) P	080 080 708	A T	SURE	PER DAY	(AFR	161-35,	¥-00	73)		
OASLC	まま	4 e	46	93	92	92	9.2 8.4	92	26	26 8	91	90 4	6
	5 6	404	571	100	100	404	4 0 4	1 00	1 0 4	404	100	404	£ 0 7
MINIMUM QPL EAR MUFFS DASLA*	12	7.1	7.0	69	69	6 0	9	99	99	60	67	99	9
4	σ		960	960	960	960	960	960	960	96 0	96	960	196
DASLA*	2 8 3	998	67	99	99	9	9	9	9	65	19	63	29
rues	90 (706	9 (70 ;	9 (2 ;		3 ·	106		30 °	
OASLA+	960 960	61 96 <i>0</i>	960	960	19 960	960	19 960	61 96 <i>0</i>	61 96 <i>0</i>	61 96 <i>0</i>	961	0 0 0 0 0 0 0 0 0	964
AMERICAN OPTICAL 1700 EAR OASLA*	₹ 5°	ம	V-51	R EAR	PLUGS 48	•	4	9	*	9	å	14	3
	960	σ	96	96	96	96	960	96	960	096	96	960	960
5	62 960	960	61 960	61 960	09 60 860	96 96	960	096	960 960	096 096	960	960	960
COMMUNICATION PREFERRED SPEECH INTERFERENCE PSIL 78	E RE NG 78	E LEVEL 79	12 12 13	11 IN 78	08) 79	62	80	2	8	62	62	₫ ኮ ₽ %	7.8
E EIVED NOISE LEVEL, CORRECTION (C IN D LT	T ON E DB.) 99	CORRECTED (PNLT IN	TED (1	PNLT I	N PNDB)	66	100	180	66	100	100	190	100
C	•	•	•	•	•	•	•	•	•	•	•	•	

* BASED ON CALCULATED SPL SPECTRUM UNDER PROTECTIVE DEVICE.

TABLE: MEASURES OF HUHAN	AN NOTSE	EXPO	URE) IDENTI		ATIONS
NOISE SOURCE/SUBJECT:	-	OPERATION:	NON			-					RUN RUN RUN RUN RUN RUN RUN RUN RUN RUN	20	
PRESSURIZED CABIN	. –		=			• •) 25	JAN 82	
LEAKAGE, AIRCRAFT	_					^					~		
NEAR FIELD NOISE LEVELS) S					~) PAGE	E H2	
DISTANCE (H)-> ANGLE (DEG)> CONDITION>	-> 260 -> 260	2.60 A A	300 A	3 t L	OCATION/CONDITION 4 2 2 2 340 0 20 A A	4/COND	ITION 2 20 A	2 4 4	N 9 ₹	2 8 4	100 100	2 120 A	140 A
-	ָבַּ באַ		NT CIVE		A 7 T A 0								
A-WEIGHTED OVERALL SO MA-WEIGHTED OVERALL SO MAD DESTROY OF THE STATE OF THE THE STATE OF THE ST	SOUND LEVE TIME (T	i li i	Z Z	FOR ONE	AT EAR IE EXPOSURE		PER DAY	(AFR	161-35,	JUL Y	733		
	96	91	95	93	ð	104	102	100	86	86	96	46	46
OASLA	38	98	96	40	8	93	92	90	69	91	91	91	91
	339	339	339	480	† 0 †	101	120	170	202	143	143	143	143
MINIMUM QPL EAR MUFFS Dasla*	56	67	68	69	7.0	82	9	11	75	78	7.	*	1
-	960	960	960	960	960	619	960	096	96	096	960	096	960
PTICAL 1700	EAR MUFF	n	;	į	ţ	i	;	;	;	;	;	;	
OASLA+	5 63	8 9 9	9 0	99	29	8 40	92.0	2 5	1 0	1 6	0 4	0 4 0	5 4 0
V-51R EAR PLUGS	8			5	2	•				?		Š	2
OASLA*	61	9	9	6 0	61	7.0	69	29	29	99	69	99	9
	an a	σ,	960		096	960	960	96	96	96	960	961	196
AMERICAN OPTICAL 1700 Dasia*	EAR MUFF	S PLUS			PLUGS 50	6	S.	35	3	10	53	M	10
	960	96	960	960	960	960	960	960	96.0	960	960	960	96
4D COM	UNICATION UNIT	. '	,		•	1	,	ļ	;	ļ	,	•	;
OASLA*	9 59 9 60	9 6 0	196 196	61 960	960 960	960	096	296 196	65 960	96 o	9e 2	969	3 60
COMMUNICATION PREFERRED SPEECH INTO PSIL	INTERFERENCE 79	7	il (PSIL 79	1 8 1 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	08) 79	8	6	1	82	e e	6	:	4
ANNOYANCE PERCEIVED NOISE LEVEL,	L, 10NE		CURRECTED (PNLT IN	NLT IN	PN08)								
PNET CORRECTION (C. IN PNET)	1 02 1 02	102	102	100	100	110	109	105	106	107	108	107	106
			* * * * * * * * * * * * * * * * * * * *								*****		

TABLE: MEASURES OF HUMAN NOISE EXPOSURE	OI SE	EXPOSI	JR E								IFICAT A 3.2
NOISE SOURCE/SUBJECT:	do)	OPERATION:	ION			<u> </u>	; ; ; ;				TO BY COLOURS
PRESSURIZED CABIN						` -) 25 JAN 82
LEAKAGE, AIRGRAFT NEAR FIELD NOISE LEVELS) PAGE HS
DISTANCE (M) -> ANGLE (DEG)> 1 CONDITION>	1 4 0 4	180 A	200 200	220 A	LOCATION/CONDITION 4	4/CONC 260 260	2 2 280 A	300 A	320 A	340 340	OPERATOR LOCATION TEST CONDITION 1/A
HAZARD/PROTECTION C-WEIGHTED OVERALL SOUND A-WEIGHTED OVERALL SOUND MAXTHUM DEBMISSTER TIME	LEVEL		COASLC IN	888	C) AT EAR A) AT EAR	<u>u</u> <u>a</u>	> <		4 4 6 6	;	,
10,000	7			2 2	אב באוח		בא טאי		66-191		è
		96	95	36	\$ 7	95	96	97	100	103	100
UASLA	B 5	96.4	2.0	4 6	161	16 t	16 17 17	2 6	161	1671	66 92
L EAR MUFFS		- -	2	7	?	2	2	÷	?	2	9
OASLA	72	72	71	71	7	72	72	15	11	0	76
~	i	960	960	96	960	960	960	960	960	960	196
1001	Λ	68	67	99	29	29	6.8	7.0	7.3	76	7.1
6		960	960	960	960	960	960	960	960	96	9 96
V-51R EAR PLUGS OASLA*	99	99	65	65	65	65	65	99	67	9	7.
	096	960	96	960	960	96	960	960	96	96	096
AMERICAN OPTICAL 1700 EAR	FFS	PLUS	V-51R		PLUGS	2		ů	9	ă	ŭ
σ		960	200	96.0	96.0	96.0	ה על ה	7 6	96.0	9 40	5 4 6 6 4 6
H-133 GROUND COMMUNICATION UNIT	UNIT	• •	,)	}		,	·			2	
	63	49	63	63	65	65	65	99	68	2 0	7.
.	096	960	960	960	960	96	960	96	960	96	96 ß
COMMUNICATION PREFERRED SPEECH INTERFERENCE PSIL 84	RE NCE 84	LEVEL 84	PSIL 83	Z M	08)	. 3 60	3	80	4 60	.# @	06
IVED NOISE LEVEL	TONE	ORRECI	CORRECTED (PNLT IN	¥ + 1	N PN08)						
ONE CORRECTION (C. IN DB PNLT C. C.		106 1	105	107	107	108	108	106	106 1	108	115
	•		•								

4	. ₹ w	8	D MET	S												•	•	. ન,	•
T A E S A E	SOURCE/SUBJEC SOURCE/SUBJEC SURIZED CABIN AGE, AIRCRAFT FIELD NOISE L	T B E VEL	s S	0	ERATIONS 2400 RPM	R P R	 	; i i i	• • •	20000	HETEOROLOGY TEMP BAR PRESS REL HUNIO	OLOGY.		29 C 69 X 69 X	: : :		RUN O 25 JAN PAGE	01 01 01 01 01 01 01 01 01 01 01 01 01 0	<u> </u>
FREQ (HZ)	0	97	20	30	0,	5.0	09	A D L	ANGLE (DEGREES)	100 100	110	120	130	140	150	160	170	181
25					77.	77<													
31.5																			
0 0 N 1							72<							72<					
£ 9	86	96	87	87	96	85	86	85	92	85	94	94	84	40	48	84	84	40	48
08	81	8 0 ×	794	9 04	79,	79.	794	794	80 4	79.	79	784	794	794	800	ž:	794	7 62	29
100	5 0	2	2 4	2 2	2 4	± ;	۲:	* *	* •	* 0	7.3	5 2	724	7.5	21	2 2	72	7 3	72
160	2 80	81	8 6	3 0	80	2 6	78	9 0	6	62	62	. 8	2.2	2	2 .	: :	4	2 .	
200	75	92	7.5	75	73	72	7.3	73	72	73	4.	2	<u>ا</u>	*	7.	69	99	67<	69
250	69	99	7.1	7.2	72	74	73	72	*	7.4	73	72	7.1	7.1	7.0	70	68	99	67
315	4.	23	92	90	8 6	00	8 7	8 6	080	97	62	8	77	92	77	77	75	M	69
2 C	D 1	9 1	20	20	8 3	0	2	r i	D 4	B 4	D 4	2 2	D 1	0 4	0 0	9	20	6	0 4
63.0	9 40	6 6	2 5	5 5	5 6	0 0	2 6	67) «	0 4 0	2 6	, e	6 6	2 9	9 40	9 6		200	2 6
008	7.0	22	72	23	69	6.6	90	65	29	99	67	99	9	99	9	67	67	9	65
1000	69	7.1	7.1	72	68	7.0	29	89	65	7.1	7.0	99	69	99	99	99	67	99	9
1250	63	29	29	† 9	† 9	63	62	29	62	63	9	63	63	49	63	4 9	9	63	63
1600	68	99	65	99	63	65	† 9	63	63	9	62	63	63	63	65	9	63	63	63
2000	65	99	62	†	62	6 2	62	60	29	63	63	62	\$	49	63	63	63	62	63
2500	61	61	61	61	23	58	6.0	6.0	60	61	62	6 2	61	63	62	29	60	9	9
3150	9	3	61	61	9	53	9	9	61	61	61	61	61	62	61	61	9	53	9
0004	61	61	58	9	61	9	61	61	62	63	61	61	61	61	62	29	61	9	9
5000	58	28	20	61	28	ω 80	50	9	9	9	61	23	23	9	61	61	9	20	53
20	25	25	21	S S	25	20	20	28	S)	20	20	2	20	20	2	53	21	8	2
8	26	20	21	21	28	20	58	28	52	52	50	28	20	S.	20	9	20	20	28
1000	20	20	20	20	21	20	51	53	53	53	ا	e N	2	52	26	26	52	4	5
OVERALL	06	90	96	9.0	9.0	69	6	89	89	89	8.8	88	87	87	87	87	87	87	86

ABLE:	A VE	PRESSUR D O HET ERS	DUND PRESSURE LEVEL BAND 10 HETERS	LEVEL	60											DENTI	CATION
NOISE SOURCE/SUBJEC NOISE SOURCE/SUBJEC PRESSURIZED CABIN LEAKAGE, AIRCRAFT FAR FIELD NOISE L	SOURCE/SUBJECT: SOURCE/SUBJECT: SURIZED CABIN AGE, AIRCRAFT FIELD NOISE LEVELS		6	2400 RPH					¥	HETEOROLOGY TEMP BAR PRESS REL HUMID	PRESS		66 69 7 X X	보		TEST B RUN 0 25 JAN PAGE	≪ ∾
FREQ (HZ)	190	200	210	220	230	240	250	ANGLE 260	OEGRE 270	EES) 280	290	300	310	320	330	340	358
N # 4 R N # 4 B N # 6 B																	
9 9	83	82<		82<	82<	81<	82<	82<		4	9	92	6.5	8	86	86	96
80		77<		76<	76<	75<	75<	75<		77<	77<	78<	78<	79<	80<	80	81
100	714	714		7 04	72	714	>69	×69		>69	714	714	72	73	73	73	73
125	2	73		714	72	9 ; 2	21	9 :		60	8	80	8	8	80	T	2 6
100	* G	2 0		2 2	22	* 0	C 5	Ç 9	9 5	2 ;	9 5	:	- 6	9 1	, k	9 7	0 7 0 2
250	99	9		69	29	99	69	9		9	9	29	9	9	29	99	6
315	2	72		99	9	69	73	72		69	99	2	72	72	72	73	75
00+	9	99		69	29	69	68	29	29	99	29	99	9	99	29	29	29
500	29	68		2	99	65	65	29		65	63	9	65	99	65	65	99
630	11	73		73	7.0	29	69	69	68	99	29	68	9	69	99	69	69
800	29	9		9	68	29	99	29		29	99	7.0	29	7 0	7.1	69	70
1000	99	99		20	7.0	69	99	69		99	99	29	29	7.1	99	69	1
1250	62	49		ż	63	†	62	61		62	63	65	\$	65	4 9	65	49
1690	9	9 5		99	65	9	†	62		62	63	99	49	99	62	99	65
2000	Z	99		65	65	49	63	† 9		†	65	99	99	65	65	99	99
2500	6 2	9		63	63	49	49	1 9		99	63	65	49	99	63	6 2	9
3150	61	6 2		69	65	99	99	† 9	65	29	99	67	49	62	63	29	61
0004	9	65		99	99	68	99	29	99	69	69	69	29	99	49	63	61
5000	29	61		68	65	99	65	1 9	65	29	67	99	99	65	99	61	53
6300	29	61		65	63	63	62	9 5	62	49	63	†	† 9	65	62	9	58
9000	29	9		65	63	† 9	† 9	ģ	† 9	65	9	63	49	9	62	60	57
9	52	59		61	9	61	9	28	58	9	23	23	28	9	28	52	51
	•			1						ı	!		;				
OVERALL	96	8	8	82	8	8	8	96	96	87	84	80	8	8	6	⊕	6.0

CEVEL CORRECTED TO REMOVE BACKGROUND/ELECTRONIC NOISE.

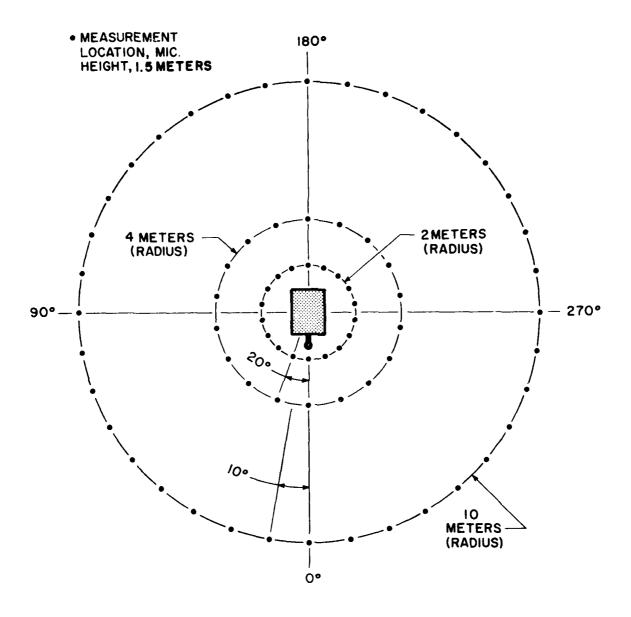
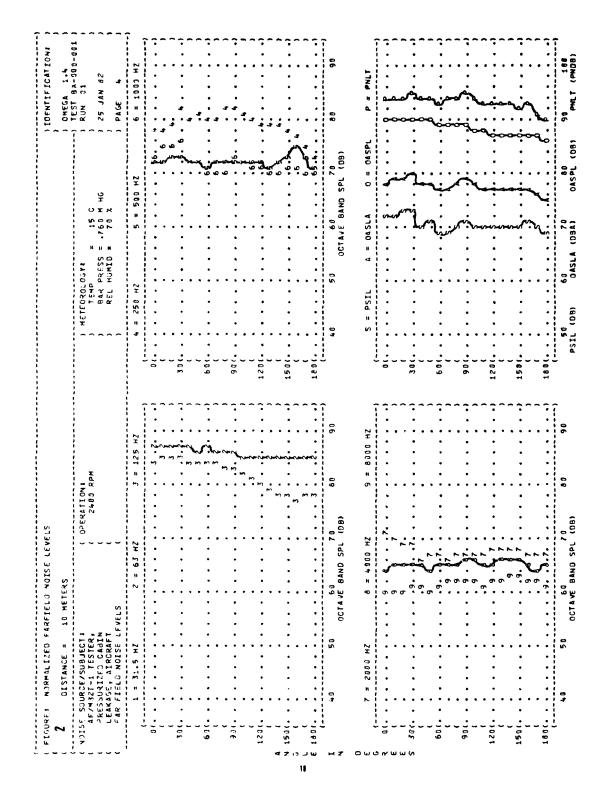
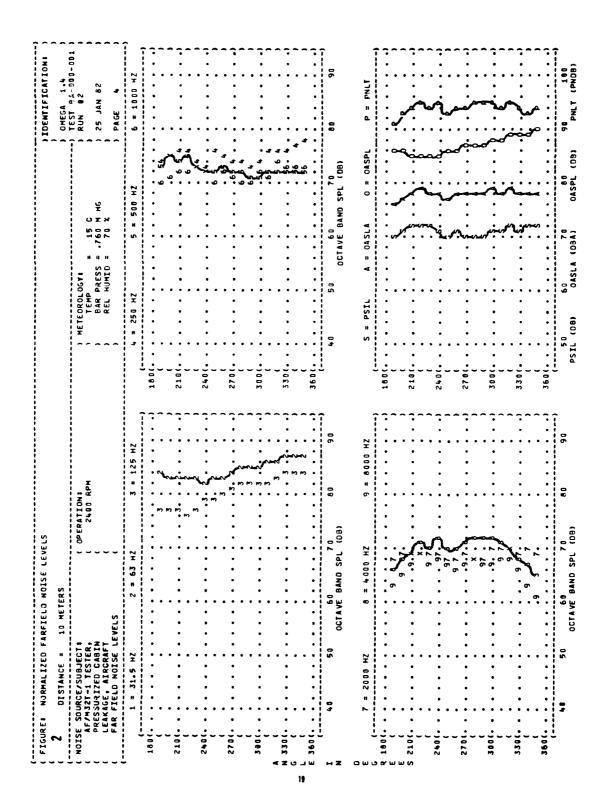
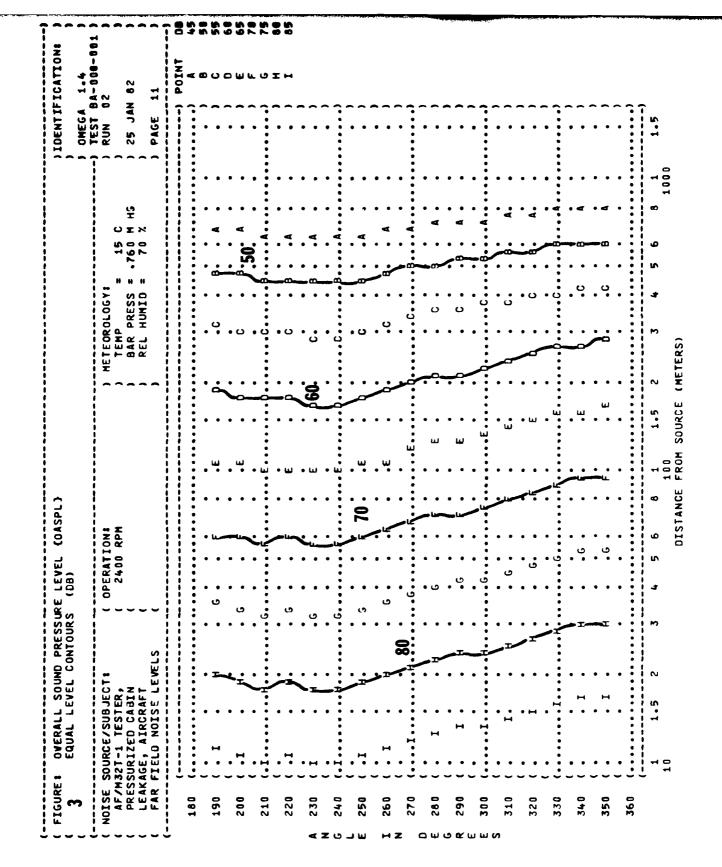


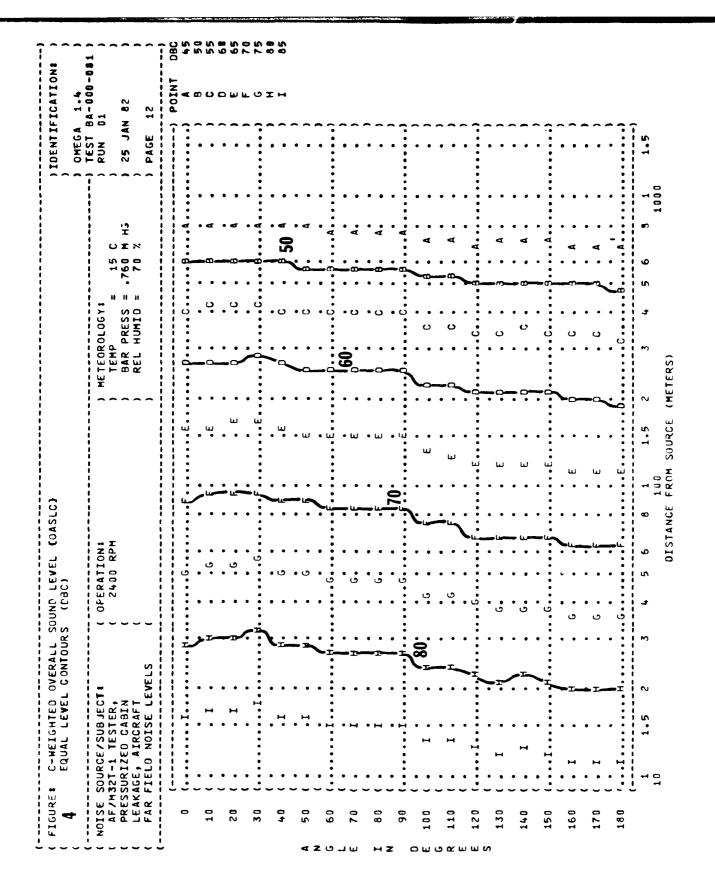
Figure 1. Measurement Locations





					1			!		•		1	1	i !	1			` [TERT	7 7	
SSSNRIZED CORN MARKEL ALCORDING TO THE PARCE	3	RCE/SUBJEC	1	<u> </u>	OPERI	AT ION	~ 3				-	METEC	ROLG		•				RUN		
I I I I I I I I I I I I I I I I I I I	RES SUR	IZED CABIN)	k 2	.				• ~ •	9A 6	PRE		4 9 F) T ;	Ţ.	` ~ ′			32
	ANAGE AR FIE	NOISE	EVELS									¥ T	5	-				~ ~	PAGE		
				i i																1	POINT
	ے نے					5	::	ب	•	E		:	: .	<u>ن</u>		-	. A .			•	< α
	: : : -		• •	-1			•	سرداس		. •	• •	-0-		٠,			• «		• •	_	.
	بسمر ت د		• •	. .		• •	• •	Lu		٠.			• •	• •	• •	~ @	. «		• •		ען ם
	· • ·	•	•		•	•	•			•		_	ەمر	•	•		. •		•		1 14. (
					•		•	`	•	:		•	<u>.</u>	: :			• •		•	-	ÞI
	• •	.	•	T-	•	٠	•	÷		•	•		.	ပ္	•	Φ.	⋖.	•	•	~ -	⊷ -
	• • • •	••		-J		و.	• •	- w		• •	• •	- 0	و .	٠.		E C	٠.		• •		•
	•	•	•	·.	•	•	•				•		•	•	•	3			•	_	
	: :	_				•		<u>. </u>			•	<u>-</u>	3						:	•	
	• ·	+ ,	•	i.	•	۰ •	•	٠.		u ,	•	<u>~</u>	3.	ပ			٠ نـ		•		
		. +		·I-		ی.	•	17		w		- 0.		ن .			• «		• •		
	֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	•		8		•				• 11		\		٠		,			•	- 3	
		. • •		•			• u				•	Ç	•						•		
			` .		• •		~			J	•				-				• •		
	:: -	 H	· ·		٠.	• •			_	• •	• •	·—		<u>.</u> .	•	⋖			• •		
	::	·	T.	:	9				W •	:		<u>.</u>	Ç.	:		A		•		:-	
I I I I I I I I I I I I I I I I I I I			- <u>-</u>		• છ	• •	 . u.	• •	ш		• •	-0-			ω.	⋖			• •	-	
I 15 2 3 4 5 6 8 1 1.5 2 3 4 5 6 8 1 1.5 2		• •	-3		ى •	•	- u	• •	ų.	• •	•		• •	• (- a	•	• •	• •	• (
I 15 2 3 4 5 6 8 1 1.5 2 3 4 5 6 8 1 1.5 2		· •	<u> </u>		• •	•	. •		, 1		•	·	• •		-				• •		
I 1.5 2 3 4 5 6 8 1 1.5 2 3 4 5 6 8 1 1.5			<u></u>		ي و							-	•	: .							
I 1.5 2 3 4 5 6 8 1 1.5 2 3 4 5 6 8 1 1.5	, .	• •	; - -		•		- •	• •)		> • •		∕.			• •	• •	٠ -	
(I	•	· I	-T-	•	٠,	•	۔	•	w	. •	•				0	∢ .	, •	, •	•	~	
1 1.5 2 3 4 5 6 8 1 1.5 2 3 4 5 6 8 1 1.5	د ـ	I	•			•			Ш							4			•	^ :	
	<u>.</u>	1.	2	3	4	;	. 60	-		1.5	2		1	1 ~	;		6	-			



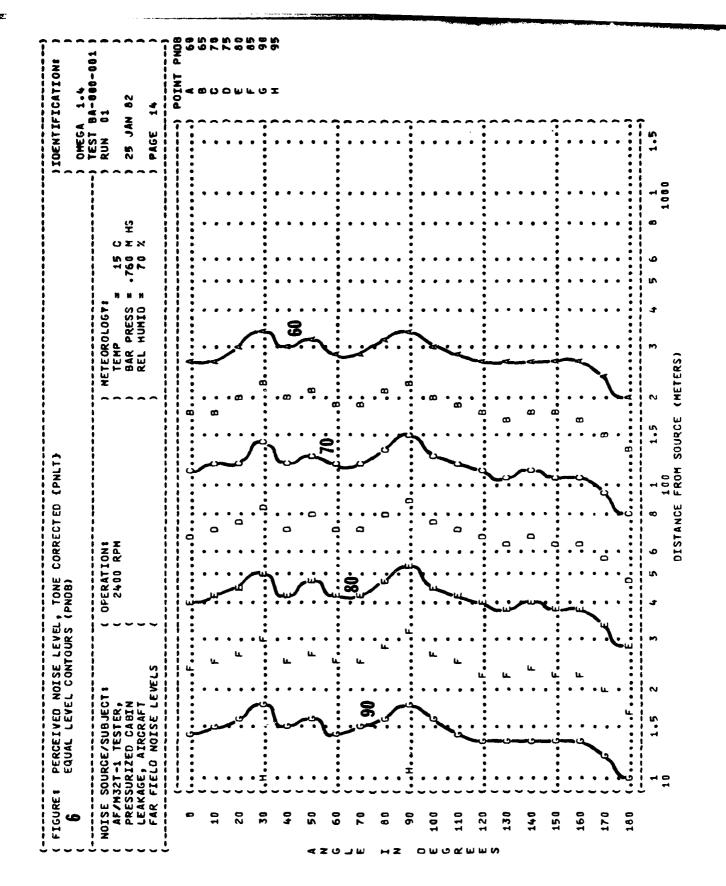


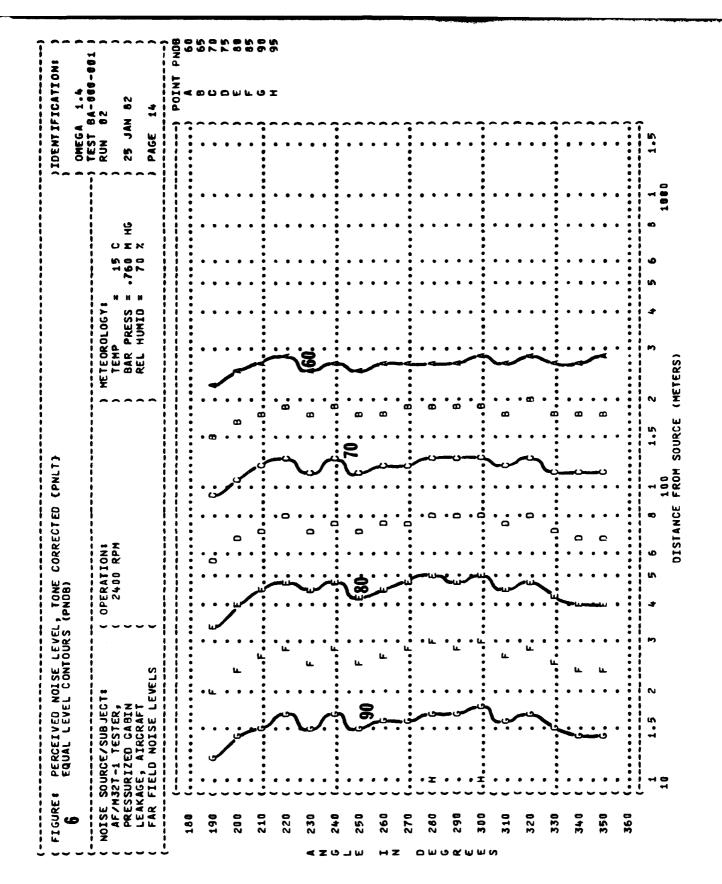
E SOURCE SUBJECT OF ERATION HTTEOROLOGY 15 C M H3 25 JAN 15 C M H3 15		1						1													5 7	OMEGA		1.4
RAMEC COBIN RAME RECEIVED TO 2 TO 2 HAS RECEIVED TO 3 TO 2 TO 3 HAS RECEIVED TO 3 TO	•	SOURCE/	SUBJE	·		Ö	ERAT	ION					_	METE(DROLC						- & 	- 2	z (∿	
REFECTO NOTISE LEVELS REFETTO NOTISE LEVELS	RES	SURIZED	CABI	a 2 1			10 1	ž					~ ~	9A(2 PRE		. 7		÷		. G		€0	~
	AR		KCKAP OISE		S	'								χ. Τ	<u>.</u>			5			ā ~ ~	AGE	~	
		1 i •																					<u>.</u>	POINT
			•			ی		u.	• •	• 14			•		ی ۰	• •	• •	. 4	• •	•			. ~ ~	6 C
			•	• •	•	, , (•	ا	•	. • L			•	Ì		•	•		•	•			. ~ .	
	·	4 •		••	• • (. •	• •		• •	٠ د		• •	• •	- '	• •	• •	• •	•	• •	• •		• •		J 14. (
	- -	:	:	•	:			ن	: •	W		-	: •	•	: : :			₹.	: •	: •			~ ~	o I
	0	•	•	• T	•	ی	•		•	w		0	•	_	•	-111	•	₩.	•	•		•		-
	- -	• •			ى •	- '	• •	<u>.</u> .	• •	• •		0	• •		• .	œ	ج.	٠ ط		• •			~ ~	
		•	•	•	• (•	•	•	•	• .		ب	•			-		. • •	•	•				
	- ·		I.	•	9 •	• •		٠				; - 7	: : <u>:</u>		•				: .			: .	~ ~ .	
	- - -	·	٠.		• •	٠.	• •	سز	• •	• ند		•	• •	-	• •		• •	٠.		• •				
		, H	•	Ť	•	. J	•		• •	. •	17.1	• •	•		. U	• •	• •	4	•	•				
	- -	· · · · · · · · · · · · · · · · · · ·		صر	•	9		میمام. :	≥:	•	u	. :				. :			•	•			~ ~	
				~. ~±.	٠. چ	ڻ	• •	• •		• •	W		صعر		د .		m	٠.		• •			~ ~	
		•	•	•	•	•	•	•	_	•	1	•	اجسم		•	•		•	•	•		•	. ~	
	- J			T	• •	_ •		• •	۰۰۰	• •	w		O		ა ••		~~~	۰.		• •				
		I	:	-17-	•			•	سبب		E	•		:	,	•			•	•	:	:	~ ~	
	•	• •	• •	• •		- •	. ·	• •	سبكا م	• •	w		• •		• •	• •	σ.		• •	• •			. ~	
	- -	•	•	•	· ·	• '		• •	ما ڪر	• •	_	• . u	•	c	•	ن •	- α	•	• 4	• (
	,		•		 	- •	•	• •	مبسي	• •			• •	_		•	•		•	• •				
	- -		: i:	: .	<u>;</u>	:	9	:	•	ئىرۇ	:	- - - - - -	: •	·	: .	0 •		: .	A .	: •		: .	~ ~	
	- `	•	ij.	•	·I	•	•	•	•	سيرا		ίμ	•	مده		ပ	•	سند	Α.	•				
	0	••	. :	• •	<u>-</u> I	- •	• (5	• •	• •	• • • u.		. u	• •	تعر		• ပ	• •	صر	٠ ۵	• •			~ ~	
		•	•	•	•	•	•	•	•	•		•	•		•	•	•	•	•	•		•		
			:					: ;			· 1	, i	, i	, i				, t		, i , j ,			٠.	

C														***
NOISE SOURC	SOURCE/SUBJECT:		OPERATION:	NO.			₩ ₩	METEOROLOGY 1	.0671	4		-	RUN	8A-000-001 01
PRESSURIZ LEAKAGE, FAR FIELD	PRESSURIZED CABLN LEAKAGE, AIRCRAFT FAR FIELD NOISE LEVELS			: ?				BAR PR	PRESS #	.760	SE M	~ ^ ^	25 JAN	62
							a							18
		_"	. m		ەر	ن			· •		•			(6) ()
50 02	۰ ۰ ق	نغر	• •	• •		• 0	• •	•••	• •	•••	• •	••	•••	0 ₩
30 (عامر			<u>.</u>	ن			4					டம
	٠.	.	. u)	· •		• •	• •	• •	• •	•	•	
	• •	٠٠	• (•	، ،	• 6	•	• •	•	• •	• •	• •	•	
• •	·	· ·	u		• •		Ί.	••	•	• •	• •		• •	
				<u>۔</u>		`		•			•	•		
	• •		 L	•	٠.	٠. د	•	•	• •	• •	• •	• •	•	
		,		• •	3	• • •	•			• • •	•	• •		
100	ئ	<u></u>	Ш			U	bo		∢				•	
110 (.	٠.	/10.		•	• •	· •		• •	٠.	• •	• •		•	
120			• la			•	<u>_</u> a	•	•	•	•	•		
130 (و ا		u U			٠	٠.	• «						
140	٠٠٠	و و	• •		• • •	٠.	· ·	. •	• •	• • •	• •		•	
		ر د	•	c	•	٠.		•	•	•	•	•		
			-											
• •		••	• •	``	• • '	••	•	• •		• •	• •		• •	
-	•	• •	 	·	•••	.`	••	⋖・	• •	• •	• •	• •	•••	
180 (.6.		E.	• • • • • • • • • • • • • • • • • • • •			9			• • • • • • • • • • • • • • • • • • • •				(

5 EQUAL LEVEL CONTOURS (CBA)				ONEGA 1.4
NOISE SOURCE/SUBJECT: AF/M3ZT-1 TESTER, PRESSURIZED CABIN LEAKAGE, AIRCRAFT FAR FIELD NOISE LEVELS	(OPERATION: (2400 RPM	1) METEOROLOGY:) TEMP = 15 C) BAR PRESS = .760 M H3) REL HUMID = 70 X	-) TEST BA-000-061) RUN 02) 25 JAN 82) PAGE 13
				AAB
(5)		υ ι		
			50 A A	
	70		4 4	
		٠		
9			W W	
9 9 9	w w	o °	4 4	
1	1 10	8 1 1.5	2 3 4 5 6 9 1	1.5

ни оможено





EQUAL LEVEL CONTOURS (DB) AF/M327-1 TESTER, PRESSURIZED CABIN PRESSURIZED CABIN PRESSURIZED CABIN FAR FIELD MOISE LEVELS G G G E E E TO G G G TO	METEOROLOGY: TEMPOROLOGY: REL PERSS REL HUMID R. T.
---	---

NOISE SOURCE/SUBJECT (OPERATION PRINTERNOE PRESSURIZED CABIN LEAR FELD NOISE LEVELS (FAR FIELD NOISE L	OPERATION 24 to 0 PERATION 25 to 0 110 N 2 t		HETEOROLOGYS TEMP SEL HUMID REL HUMI	OMEGA 1.4 1 TEST BA-000-001 2 JAN 82 1 PAGE 15 1 PA
350		-0	=====================================	

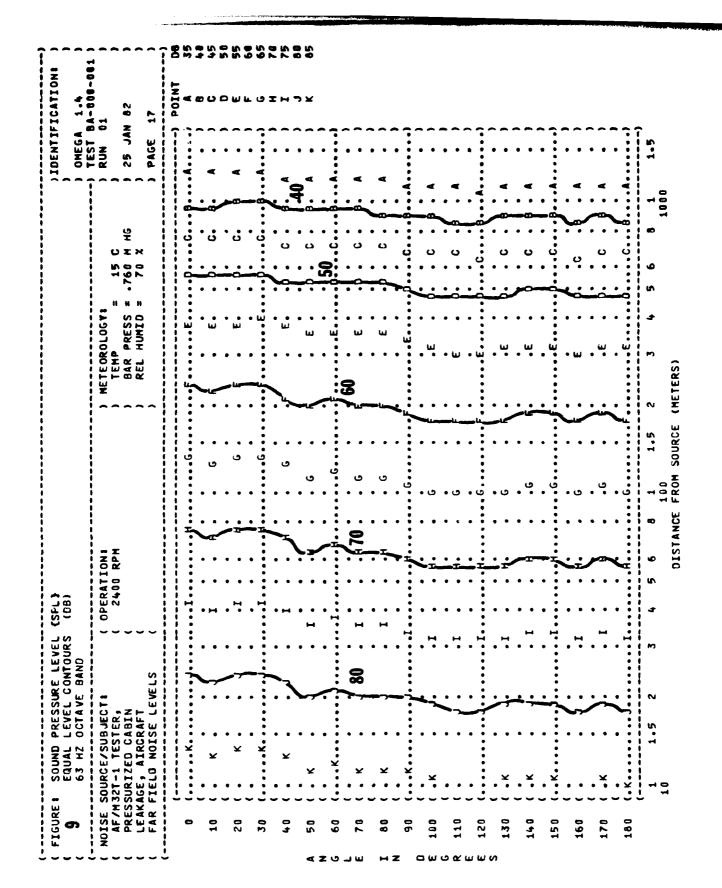
	FIG	FIGURE:	MAXIMUM PERMISSIBLE EQUAL TIME CONTOURS	TIME (T) FOR ONE EXPOSURE PER DAY (AFR 161-35, (MINUTES)	35, JULY 73)	FICATI
10 C	2	IEUX	T1 EVELS		H .760 M	
10 C COMPIL MAY BE EXPOSED UP TO 960 MINUTES PER DAY 50 C AT ALL DISTANCES FROM SOURCE EQUAL TO OR GREATER THAN 10 METERS 60 C FOR ALL ANCLES EVALUATED (INDICATED BY < AT LEFT) 70 C UNDER THE FOLLOWING EAR PROTECTION CONDITIONS: 80 C MINIMUM QPL EAR MUFFS 110 C MARKICAN OPTICAL 1700 EAR MUFFS 110 C COMFIT TRIPLE FLANGE FAR PLUGS 1140 C COMFIT TRIPLE FLANGE FAR PLUGS 1150	<u>!</u>				0	
20 C PERSONNEL MAY BE EXPOSED UP TO 960 MINUTES PER DAY 50 C AT ALL DISTANCES FROM SOURCE EQUAL TO OR GREATER THAN 10 METERS 60 C FOR ALL ANGLES EVALUATED (INDICATED BY < AT LEFT) 70 C NUMBER THE FOLLOWING EAR PROTECTION CONDITIONS: 80 C MINITMUM OPL EAR MUFFS 100 C MINITMUM OPL EAR MUFFS 110 C AMERICAN OPTICAL 1700 EAR MUFFS 120 C COMFIT TRIPLE FLANGE FAR PLUGS 130 C M-133 GROUND COMMUNICATION UNIT 140 C COMFIT TRIPLE FLANGE FAR PLUGS 150 C COMFIT TRIPLE FLANGE FAR PLUGS 150 C M-133 GROUND COMMUNICATION UNIT 140 C COMFIT TRIPLE FLANGE FAR PLUGS 150 C C C C C C C C C C C C C C C C C C C	ન) >01 20 × 01				~ ^
30 C	8	 :0				^ = 1
### PERSONNEL HAY BE EXPOSED UP TO 960 HINUTES PER DAY FOR ALL DISTANCES FROM SOURCE EQUAL TO OR GREATER THAN 10 METERS FOR ALL ANGLES EVALUATED (INDICATED BY < AT LEFT) MODER THE FOLLOWING EAR PROTECTION CONDITIONS: ### HINIMUM QPL EAR HUFFS 100 ### HINIMUM QPL EAR HUFFS ### HINIMUM QPL EAR HUFFS 110 ### HINIMUM QPL EAR HUFFS ### HINIMUM QPL EAR HUF	m	20 × 0.				m da 1
50 < TOWN GREATER THAN 10 METERS 60 < FOR ALL ANGLES EVALUATED (INDICATED BY < AT LEFT) 70 < UNDER THE FOLLOWING EAR PROTECTION CONDITIONS: 80 < NO PROTECTION 90 < MINIMUM QPL EAR MUFS 110 < W-51R EAR PLUGS 120 < COMFIT TRIPLE FLANGE FAR PLUGS 130 < H-133 GRDUND COMMUNICATION UNIT 140 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 < 150 <	4			MAY BE EXPOSED UP TO 960 MINUTES PER		~ ~ ·
FOR ALL ANGLES EVALUATED (INDICATED BY < AT LEFT) 70 C UNDER THE FOLLOWING EAR PROTECTION CONDITIONS: 80 C NO PROTECTION 90 C HINIMUM QPL EAR HUFFS 110 C AMERICAN OPTICAL 1700 EAR HUFFS 120 C COMFIT TRIPLE FLANGE FAR PLUGS 130 C COMFIT TRIPLE FLANGE FAR PLUGS 130 C H-133 GROUND COMMUNICATION UNIT 140 C COMFIT TRIPLE FLANGE FAR PLUGS 150 C COMFIT TRIPLE FAR PLUGS 150 C COMFIT TRIPLE FRANCE FAR PLUGS 150 C COMFIT TRIPLE FAR PLUGS 150 C COMFIT TRIPLE FRANCE FAR PLUGS 150 C COMFIT TRIPLE FAR PLUGS 150 C C COMFIT TRIPLE FAR PLUGS 150 C C C C C C C C C C C C C C C C C C C		 20 × 0;	ALL D	8	10 METERS	~ ~ .
70 < UNDER THE FOLLOWING EAR PROTECTION CONDITIONS: 80 < NO PROTECTION 90 < MINIMUM QPL EAR HUFFS 100 < V-51R EAR PLUGS 110 < V-51R EAR PLUGS 120 < COMFIT TRIPLE FLANGE FAR PLUGS 130 < COMFIT TRIPLE FLANGE FAR PLUGS 140 < COMFIT TAIDLE FLANGE FAR PLUGS 150 < COMFIT TAIDLE FLANGE FROM SOURCE (METERS)		.0 × 0.	ALL	EVALUATED (INDICATED BY <		• •
80 < (NO PROTECTION 90 < (HINIMUM QPL EAR MUFFS 100 < (AMERICAN OPTICAL 1700 EAR MUFFS 110 < (V-51R EAR PLUGS 120 < (COMFIT TRIPLE FLANGE FAR PLUGS 130 < (H-133 GROUND COMMUNICATION UNIT 140 < (H-133 GROUND COMMUNICATION UNIT 150 < (H-13 GROUND		. 0 . 0	UNDER THE	FOLLOWING EAR PROTECTION CONDITIONS:		~ ~ .
90 < (HINIMUM QPL EAR MUFFS 100 < AMERICAN OPTICAL 1700 EAR MUFFS 110 < (V-51R EAR PLUGS 120 < (COHFIT TRIPLE FLANGE FAR PLUGS 130 < (H-133 GROUND COMMUNICATION UNIT 140 < (H-13 GROUND COMMUNICATION UNIT 150 < (H-13 GROUND COMMUNICATI		· · · · · · · · · · · · · · · · · · ·		ROTECTION		~ ~ 4
110 < (V-51R EAR PLUGS 120 < (COMFIT TRIPLE FLANGE FAR PLUGS 130 < (H-133 GROUND COMMUNICATION UNIT 150 < (H-134 GROUND COMMUNICATION UNIT 150 < (H-134) > O.	HINIH	MUH QPL EAR HUFFS		~ ~ .
120 < COMFIT TRIPLE FLANGE FAR PLUGS 120 < COMFIT TRIPLE FLANGE FAR PLUGS 130 < H-133 GROUND COMMUNICATION UNIT 140 < CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC		 20 -	AMERI			~ ~ .
120 < (COMFIT TRIPLE FLANGE FAR PLUGS 130 < H-133 GROUND COMMUNICATION UNIT 140 < (150 < (150 < (150 < (150 < (150 < (150)))) 1) > O1	V-51R	R EAR PLUGS		~ ~ ′
130 < (H-133 GROUND COMMUNICATION UNIT 140 < (150 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 < (170 <		20<	COMFI	IT TRIPLE FLANGE FAR PLUGS		- - (
1 1.5 2 3 4 5 6 8 1 1.5 2 3 4 5 6 8 1 10 10 10 100 100 100 100 0ISTANCE FROM SOURCE (METERS)) > O.		3 GROUND COMMUNICATION UNIT		~ ~ /
1 1.5 2 3 4 5 6 8 1 1.5 2 3 4 5 6 8 1 100 100 100 100 100 100 1000 1000	14					~ ~ .
1 1.5 2 3 4 5 6 8 1 1.5 2 3 4 5 6 8 1 10 10 100 100 100 100 100 100 100 1	15) > 0 <u>:</u>				~ ~ .
1 1.5 2 3 4 5 6 8 1 1.5 2 3 4 5 6 8 1 10 10 10 100 100 100 100 100 100 10	16	,0 < C				- ~ *
10 1.5 2 3 4 5 6 8 1 1.5 2 3 4 5 6 8 1 10 10 10 100 100 100 100 100 100 10	17	· · · · ·				
1 1.5 2 3 4 5 6 8 1 1.5 2 3 4 5 6 8 1 000 0 000 0 000 0 000 0 000 0 000 0 000 0	18	, >01				
		<u> </u>	1 1.5 2	5 6 8 1 1.5 2 100 DISTANCE FROM SOURCE (METERS)	1 40 1 40	1.8

MATER SOURCE/SUB-ECT: (OPERATION:) HETEOGLOGOT: 155 JA PRESSURZED CARD: (2400 RPH 170 170 x 170	FIGURE 1	MAXIMUM PERMISSIBLE EQUAL TIME CONTOURS	TIME (T) FOR ONE EXPOSURE PER DAY (MINUTES)	(AFR	H 4
200 c 210 c 220 c	IEUY	SOURCE/SUBJECT: 32T-1 TESTER, SURIZED CABIN AGE, AIRCRAFT FIELD NOISE LEVELS	(OPERATION:) (2400 RPM) () ())	1 15 C 1 750 H 1 70 X	TEST BA) RUN 02) 25 JAN) PAGE
200 C 210 C 220 C	180				(
210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 210 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 < 200 <	190<				~~
220 C PERSONNEL MAY BE EXPOSED UP TO 960 MINUTES PER DAY 230 C AT ALL DISTANCES FROM SOURCE EQUAL TO OR GREATER THAN 10 METERS 240 C FOR ALL ANGLES EVALUATED (INDICATED BY < AT LEFT) 250 C NUMBER THE FOLLOWING EAR PROTECTION CONDITIONS: 270 C MINIMUM OPL EAR MUFFS 290 C AMERICAN OPTICAL 1700 EAR MUFFS 290 C OPHIT TRIPLE FLANGE EAR PLUGS 310 C COMFIT TRIPLE FLANGE EAR PLUGS 330 C COMFIT TRIPLE FLANGE EAR PLUGS 340 C SA COMPONICATION UNIT 320 C SA COMPONICATION UNIT 350 C SA	>002	.			
PERSONNEL MAY BE EXPOSED UP TO 960 HINUTES PER DAY AT ALL DISTANCES FROM SOURCE EQUAL TO OR GREATER THAN 10 METERS FOR ALL ANGLES EVALUATED (INDICATED BY < AT LEFT) UNDER THE FOLLOWING EAR PROTECTION CONDITIONS: NO PROTECTION MINIMUM OPLEAR HUFFS AMERICAN OPTICAL 1700 EAR MUFFS V-51R EAR PLUGS COMFIT TRIPLE FLANGE EAR PLUGS H-133 GROUND COMMUNICATION UNIT	210<	-			
240	220<	_	MAY BE EXPOSED UP TO 960 MINUTES	PER DAY	~ ^ ^
250 < FOR ALL ANGLES EVALUATED (IMDICATED BY < AT LEFT) 250 < NUMBER THE FOLLOWING EAR PROTECTION CONDITIONS: 260 < NUMBER THE FOLLOWING EAR PROTECTION CONDITIONS: 260 < MINIMUM OPE EAR MUFFS 290 < V-51R EAR PLUGS 310 < COMFIT TRIPLE FLANGE EAR PLUGS 310 < COMFIT TRIPLE FLANGE EAR PLUGS 350 < CCM TITLE FLANGE EAR PLUGS 360 < CCM TITLE FLANGE EAR PLUGS 370 < CCM TITLE FLANGE EAR PLUGS 3		ALL	STANCES FROM SOURCE EQUAL TO OR GR		~ ~ ^
250 <	240		NGLES EVALUATED (INDICATED BY < AT	r LEFT)	
250 < MINIMUM OPL EAR MUFFS 280 < AMERICAN OPTICAL 1700 EAR MUFFS 290 < V-51R EAR PLUGS 300 < COMFIT TRIPLE FLANGE EAR PLUGS 318 < H-133 GROUND COMMUNICATION UNIT 320 < 34 5 6 9 1 10 1.5 2 3 4 5 6 8 1 10 1.5 2 5 5 6 8 1 10 1.5 2 5 5 6 8 1 10 1.5 2 5 5 6 8 1 10 1.5 2 5 5 6 8 1 10 1.5 2 5 5 6 8 1 10 1.5 2 5 5 6 8 1 10 1.5 2 5 5 6 8 1 10 1.5 2 5 5 6 8 1 10 1.5 2 5 5 6 8 1 10 1.5 2 5 5 6 8 1 10 1.5 2 5 5 6 8 1 10 1.5 2 5 5 6 8 1 10 1.5 2 5 5 6 8 1 10 1.5 2 5 5 6 8 1 10 1.5 2 5 5 6 8 1 10 1.5 2 5 5 6 8 1 10 1.5 2 5 5 6 8 1 10 1.5 2 5 5 6 8 1 10 1.5 2 5 5		UNDER THE	FOLLOWING EAR PROTECTION CONDITIO	ONS &	~ ~ •
270 < (MINIMUM OPL EAR MUFFS 280 < (V-51R EAR PLUGS 310 < (COMFIT TRIPLE FLANGE EAR PLUGS 310 < (H-133 GROUND COMMUNICATION UNIT 320 < (S\$0) \$0 < (S\$0 < (S\$0) \$0 <	260<		ROTECTION		
290< (V-51R EAR PLUGS 300< (COMFIT TRIPLE FLANGE EAR PLUGS 310< (COMFIT TRIPLE FLANGE EAR PLUGS 310< (H-133 GROUND COMMUNICATION UNIT 320< (S40< (S50< (S50)		- INIT	MUM OPL EAR MUFFS		~ ~ .
290 < (V-51R EAR PLUGS 310 < (COMFIT TRIPLE FLANGE EAR PLUGS 310 < (H-133 GROUND COMMUNICATION UNIT 320 < (330 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350		(AMER]	ICAN OPTICAL 1700 EAR MUFFS		
300< (COMFIT TRIPLE FLANGE EAR PLUGS 310< (H-133 GROUND COMMUNICATION UNIT 320< (S40< (S40< (S50< (S50< (S50< (S50 (S		V-518	R EAR PLUGS		~ ~ 4
310 < (H-133 GROUND COMMUNICATION UNIT 320 < (340 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 < (350 <		COMF.	IT TRIPLE FLANGE EAR PLUGS		~ ~
<pre> ((</pre>		H-133	3 GROUND COMMUNICATION UNIT		~ ~ 4
<pre> (((((((((((((((((((</pre>	320<	.			• • •
<pre> ((((((((</pre>	330 <				/
<pre> ((</pre>	340<	· • •			~ ^ 4
((1.5 2 3 4 5 6 8 1 1.5 2 3 4 5 6 5 1 10 10 10 100 100 100 100 100 100 10	350<	· • •			~ ~ ~
1.5 2 3 4 5 6 8 1 1.5 2 3 4 5 6 5 1 100 100	360				
		.5 2	4 5 6 8 1 1.5	W 4 5	

からをするできるとこれ のないかん かんかんしゅうしゅう

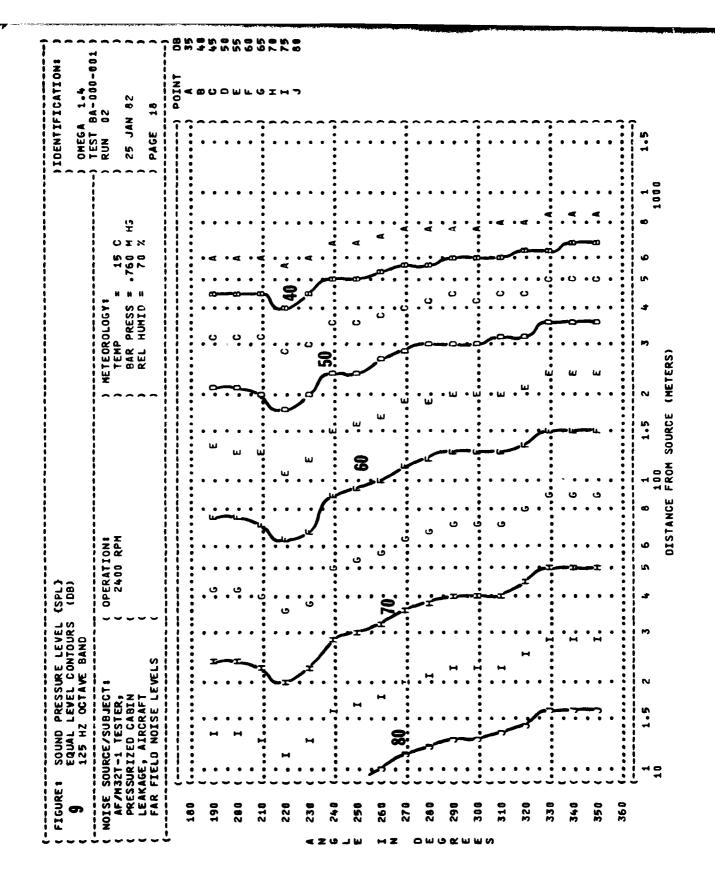
	SOUND PRESSURE LEVEL (SPL) EQUAL LEVEL CONTOURS (08)	/EL (SPL) /RS (08)) IDENTIFICATIONS
31	31.5 HZ OCTAVE BAND			OMEGA 1.4
NOISE SOURCE/SUBJECT	,	(OPERATIONS) HETEOROLOGY:) -ESI 64-004-001) RUN 01
AF /M32T-1 TESTER,	TESTER,	2400 RPM) TEMP = 15 C	•
PRESSURIZED CABIN	ED CABIN () BAR PRESS = .760 M H3) 25 JAN 82
LEAKAGE, AIRCRAFT	AIRCRAFT () REL HUMID = 70 %	•
FAR FIELD	FAR FIELD NOISE LEVELS (~) PAGE 16
	NO CONTOUR DATAEIT	NO CONTOUR DATAEITHER NO INPUT DATA WERE COMPUTED (=9999.0)	9 1 2 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	• • • • • • • • • • • • • • • • • • •
- - - - -	MINIMOM CONTOUR	LEVEL REQUESTED IS GREATER THAN MAXIMUM COMPUTED LEVEL.	AN MAXIMUM COMPUTED LEVEL.	

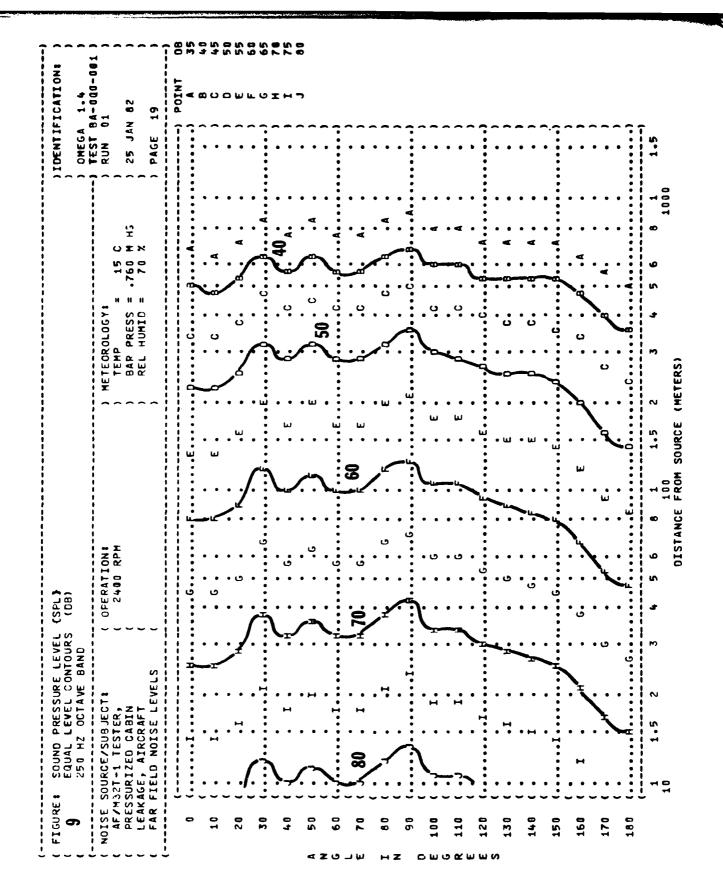
NOISE SOURCE/SUBJECT# (OPERATION#		
		7 RUN 02
. . .	BARN PRESS = .1) 25 JAN 82
	•	PAGE 16
NO CONTOUR DATAEITHER NO INPUT DATA WERE COMPUTED (=9999.0)	EITHER NO INPUT DATA WERE COMPUTED (=9999.0)	

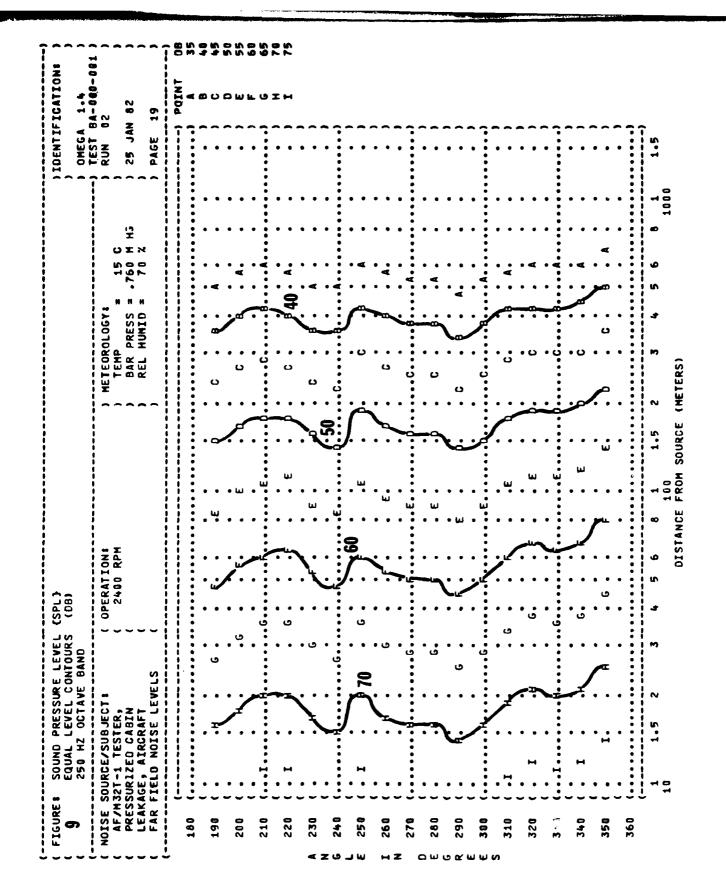


13.5 C	6	EQUAL 63 HZ	LEVEL	CONTOURS		(08)						1				~ ~ ~	OMEGA	OWEGA 1.4
	ISE AF/H PRES LEAK FAR		/SUBJECT TESTER, D CABIN IRCRAFT	* VELS	0000	PERAT.	NO N				Z C C C	EOROL EHP JAR PR	O C Y R		l .		RUN 25 J	182
	80																	-) POINT
	06	•••	٠.			• I-		٠.		٠.,		• •	•			٠.	• •	B U
	00	•••	٠٤.					• • •		٠ <u>.</u>		• • •	ò	• • •	· m	• « •	• • •	
8	20			: :				• • •	•					υ · υ	1	4 . 4		
	30		٠:٠			· · · ·		٠.;٠		·.·	• • • •	• • •	- - - - - - - - - - - -		<u>.</u>	• « •	• • •	7¥
	<u> </u>			• H		E P	<u> </u>			. 3 .	П		٠	0 0		4		;
	0 9	•••						، ی		اسخار		• • • (برصه	• • • •	<u>_</u>	• « • '	• • •	^ ^ ^ ^
	0 0		7	· · · ·					•			u · u		2	٠	4		; ^ ^ ·
	9 6	•••	'ممہد' · · ·		н.'		سنين	• • •	• • •		 اسـ	• W •	• • •	آ امرین		۷ ،	• • •	
	5 6	∠	•	, , ,				:	• • •	•	ساحرخ	 	•			₹	•	
	20		• • •		н	• • •	<u>ب</u>	• • •	ن .	• • •		• • •	• • •	، ، ،	٠٠,	٠.,	• • •	~ ~ ~
T T	30	¥			H		T.		0		المستعام			٥٠٠		≪ ≪ ∞—∞		-;
	5.0					• •		• •	٠.		iL	• •	٠		٠.;	₩	• •	
	099	!									• !	• • •			•			~ • •

1321-1 FESSES 1	,	621	M2 UC1A	ה י	BAND	•	•												- (OMEGA	⋖	4.4	•
REL HUNTO = 70 x H SP LNK REL HUNTO = 70 x H REL HUNTO = 7	NOISE S	SOURCE/	SUBJE ESTER	CT.		ŏ ~~	PERAT 24.00	RPH				~~	MET	EOROL	.06Y	м.				S S			5
R FEELD MOISE LEWES	RES	SURIZED AGE, AI	CABI	Z F									ø œ	AR PF	RESS	7. "		Ę		52		20	
	A .	FIELD N	OISE	LEKEL	į	-	!													PAG	- 1	9	i
	-	:	1:	!:	1:		7						E.		0	ن	60	A			1:	POINT A	
		.¥.	•	<u>;;</u>	• •	H	• •	~	• •	٠.	•••	سر		• •	خز	٠.	•••	•	• •	• •		ස	
		• 🗴 .	• • •		• •	н	• •	· <u>·</u>	• •	و •	• •		W .	• •	<u>-</u> -	•••	•	• •		• •		O W 1	
	30		7		· · · ·									•			-	. 4	•	•	•	: و ۱	
	9	•••		• •		•	•	• •	•••	• •			ш	• •	· ·	• 0	• • •	. [₹] .		• •		I H	
	·	• • •	<u>ښ</u>	• •	• #		~=	• •	•••	• •			w •	• •	-0	• 0	-	٠.	• •	• •	^ ~ ^	7 ×	
	09		ڹ	. :			ن :	•	ۏ	•			E.	•	50	. ;		•	• :	•	`:		
		••	<u>`</u> ،	 ç	٠.;	•		. 67	• •	• •		3	m	• •	· ·	• 0		٠.		• •			
	- - `	• •	ه مخر	 2	••	- •	`	•••	و •	• •	L.	•	w	• •	• •	٠.;	÷	• •	• •	• •			
				•			I	•		. :	LL		W.	ġ	•			. ;		•	~ :		
		· ~	• •	••	• •		• •	• •	••	• •	- 4	- W	a (+)	~~	٠.	• •	-0.	٠.		• •			
					• • •		• • •	• • •	• • •		• • •	ัพ้ •			٠٠.	-	٠ بـ	٠		• • •			
	9 6				V			9		٠.		E.	1			*	•				:		
I I I I I I I I I I I I I I I I I I I	- -		٠٠	• •	· ·		• • •	• •	١	• •	י י	•		• •	• •	<u>:-</u>	4		• •	• •			
I I I	, ,	• •	۰.	• •	<u> </u>	•	.	• •	, ·	• •	֓֓֡֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֜֜֓֓֓֓֡֓֓֡֓֡֜֜֜֓֡֓֡֓֡֓֡֓֡֜֜֡֜	• •		، د	• •	<u>.</u>	٠,٠	• •		• •			
I I			4			•	و		·	• • • •	i ii	•	\				• • • • •	:		:	:		
I	-0	••		• •	•••	• •	ی	• •	مماحر		์ พ้	•	صر		• •	<u>ن</u>	. ∢			• •			
			. :	•				•	- L		m						A	• :		•	^:		







CATIONS 1.4 1000	RUN 01 25 JAN 82 PAGE 20	HA BOOMEOI	#*************************************
	욷		1000
	7697 70 T		9
	METEOROLOGY: TEMP BAR PRESS REL HUMID:		# m
	METE DETE DETE		8
		3	1.5
			100
) (a)	OPERATION: 2400 RPM	S	1 0
NTOURS (DB)	8		n
LEVEL CONTOURS OCTAVE BAND	AECT 8 ER, BIN AFT E LEVELS		2
EQUAL LE	E/SUB TEST ED CA AIRCR NOIS		1.5
6	NOISE SOU AF/H32T PRESSUR LEAKAGE FAR FIE	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 2

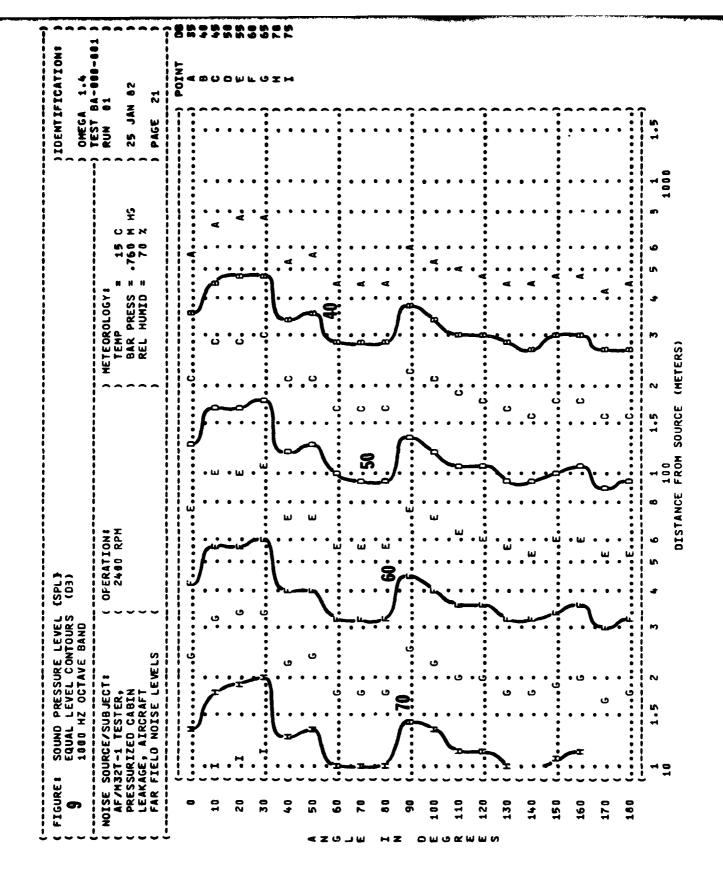
#

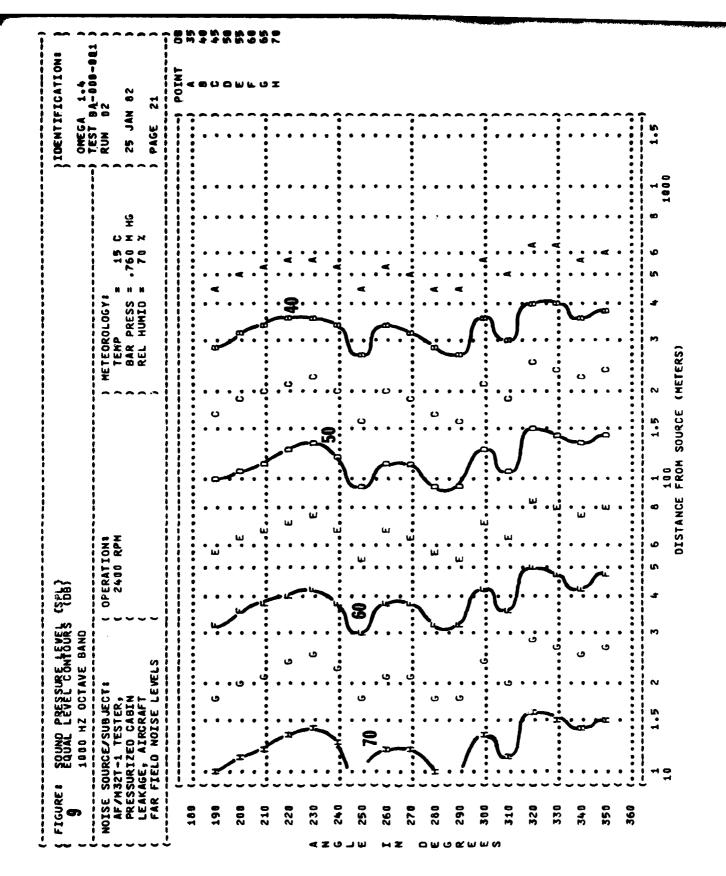
HZ DWGKUNG

) OMEGA 1.4) OMEGA 1.4) TEST BA-000-00) RUN 02 = 15 C) SUN 02 = 70 X) 25 JAN 82 = 70 X) PAGE 20	5 6 8 1 1.
) METEOROLOGY:) TEMP :) BAR PRESS :) REL HUNIO :	1.5 2 3 4
(DB) OPERATION: 2400 RPM	4 5 6 8 1
LEVEL CONTOURS Z OCTAVE BAND UBJECT: STER, CABIN CRAFT ISE LEVELS	

The second secon

The second of th

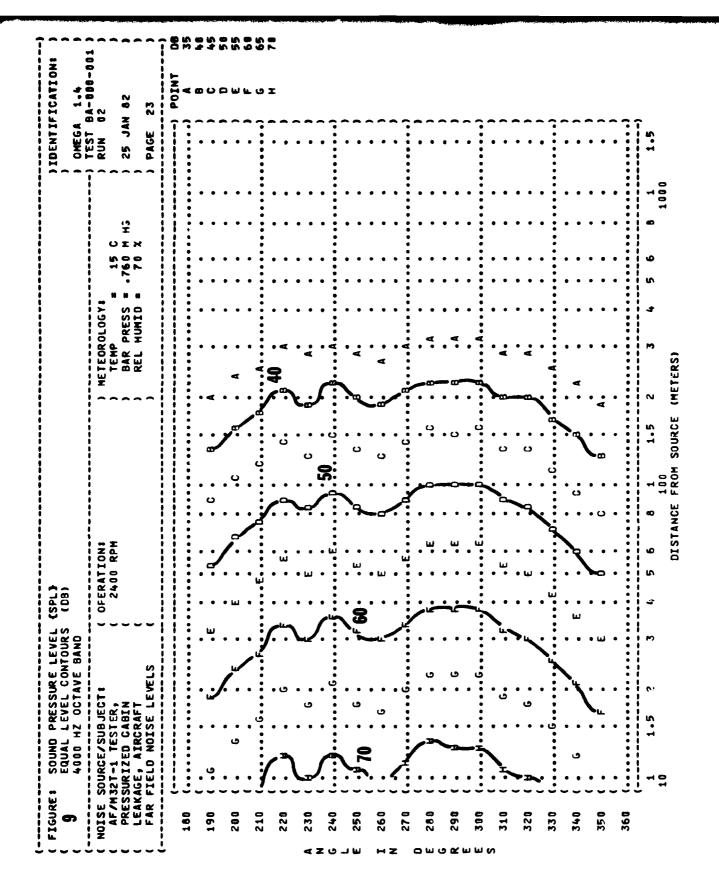




RECESSION REPORT TO THE PROPERTY OF THE PROPER	~	2880 2880	12 E	LEVEL CO	N A B		(38)													ONEGA 1.4		1.4	
	NOISE AF/P PRES	T W Y	E/SUBJ TESTE ED CAE	ECT!			OPERA 240	T TON	· I				2000	TEMP TEMP BAR	OLOGY PRESS		ľ	ľ		RUN 25 L	A 0 1	2	
	FAR	FIELD	NOISE	LEV	İ					į			-			·				PAGE		į	ļ
	•	1 :	ļ	-	ļ	1,4										Ĭ					•	DINT	8
	-	<u> </u>	:	; '			: .			-	:			•	•		:			•	•	< €	
	10	•	•	•		L.	•	F	•	<u>~</u>		ပ	•		4	•	•	•	•	•	~ -	S C	
	20	• •	• •	• •	_	<u>.</u>		• •	• •	· •	-	• ;	•	• •	< <	• •	• •	• •		• •		ו עון כ	. S
	30	•	•	•		•			-0		Ü				· •			•		•	^ •	د يا	
	•	•	•	•	1	•	•		\	•) ·	•	•	•	•	•	•	•	-	I	
		9 • •	• •	₹•	1	• •		•••	· ·	•			٠ ۲	• •	• •	• •		• •	• •	• •	~ ~		
	20	••	 o	• •	<u> </u>		w •	• •	~	• •	ပ		9 V	٠ ٠	••	• •		• •		• •	^ ^		
	9	:	ق	•		:	E	`	4				9	4		•		•			?		
	7.0		• •	ني						• 0			• •	• •	• •	• •	• •	• •	• •	• •	. ~		
	8	•••		•	مجيلا	• •	• •	√~.	ج ج	• •	ပ	• •	• •	۸.	• •	• •	• •	• •	• •	• •			
	G				3						j	•		•	•	•		•	•	•	^ 7		
	90			• •		•	٠.			•	ن			• •	• •	•	•	• •	• •	• •	~~		
			• •	• •	<u> </u>			• •	· •		, (:	. •	• •	• •		• •		• •			
	110	••	• • •	• •		٠.	. ·	• •	· ·	• •	د		<u> </u>	∢ •	• •	• •	• •	• •	• •	• •			
	120				-	:	.E.		منجر	•			٠	A		•					•		
	130	• •	ی.	• •	-4-		ш • •	• •	-0-	• •	ပ		, 00-		٠.	• •	• •	• •		• •	~ ~		
G F E E O G B A A B A B A B A B A B B A A B B B A A B B B A B B B A B B B B A B	140	::	• .	• •	-			• •	∹	• •	ပ		÷.	• •	• •	• •	• •	• •	٠.	• •			
	6	•		•	>	•		•	`	•	c	•		•	•	•	•	•	•	•	~ -		
			• -		_		•			-				•						٠	_		
1.5 2 3 4 5 6 8 1 1.5 2 3 4 5 6 8 1 1.5	160	• •	٠.	• 1	4			• •		• •	ပ		• •	¥ '	•	• •				• •	~ ~		
1 1.5 2 3 4 5 6 8 1 1.5 2 3 4 5 6 8 1 1.5	170		٠.		-144		•	•	· ·	• •	ပ	•	, •	A	•	•	•	•	•	•			
1 1.5 2 3 4 5 6 8 1 1.5 2 3 4 5 6 8 1 1.5	180	.:	:	• :	نیر	:				•	: :	• :		• 4	• :	•	• :	•	•	•	•		
		-	1			2				-		1.5	2	m	3	10	9	•	- 5	1.5	î.,		

NOISE SOURC AF/H32T-1 PRESSURIZ LEAKAGE,	2000 HZ OCTAVE B	CONTOURS AVE BAND	(08)											OMEGA	OMEGA 1.4
FAR FIELD	E/SUBJECT: TESTER, ED CABIN AIRCRAFT NOISE LEVEL		OPERATION: 2400 RPM	RPH R				METE TE BA RE	METEOROLOGYS TEMP BAR PRESS REL HUNIO	8 4 5 E E E E E E E E E E E E E E E E E E	.760			•	0 2 N 8 2 S 2 S 2 S 2 S 2 S 2 S 2 S 2 S 2 S 2
180 (POINT
190 (.	•••		 . w	• •	• •	ပ	• •	• ന	• •		• •	• •	• •	• •	စပေ (
200 (.	•••	٠.	w W		٠.	ပ	• •	سره م	∢.,	• •	• •	• •	• •	• •	- Lu Lu
210 (•••••	سغام	. W		-0-	3		.a.	A	:		•			. ن
228 (.	• •	جنا ڪي	• w		· ·	O	• .:					• •		••	:
236 (سر:	• 14	• •	- 9	C	• ,:		٠.		• •	• •		•	
	• •	<u> </u>	•		-		•	는. 음			•	•	•	•	
 D#2	• • • • • • • • • • • • • • • • • • • •	~							A			•			
250 (.	٠.	• •	 w			ပ		œ	⋖			• •		• •	
260 (و د محسام	ш	•	3	ပ	•	· m	₹.	• •	•	• •	• •	• •	
270 (9	3	Ε			S		.	. A .			•			_
280 (.	• • •				· ·	Ų	. ,		٠.		• •	• •		•••	
	• •	•	• ·	•	• •	ر	•		•	•	•	• •	• •	•	
		<i>ر</i> مر.		••,	ſ.	•	• • •			• •		• •	• •	•	
000	• • • • • • • • • • • • • • • • • • • •				~	•	•		•	•					
310 C	• • • •	بمسي	• • • •		<u>;</u>	,			• •		• •	• •	• •	• •	
320 (1	• •	٠.	7		٠.	٣		 4	• •	• •		• •	
330 (ئ	E			3			A	:		•			
340 (•	•	4	•	•	÷		ن	~	•	A	•	•	•	•	
350 (.		·.	• w		-	o	• ,:	<i>a</i>	•	• •	• •	• •	• •	• •	
360 (•	:								• :		•			
<u>.</u> -	1.5 2	m	1 2	9	8	-	1.5	2	m	*	5		7	1.5	_

E SOURCE/SUBJECT: ###################################	ZH 0004	Z OCTAVE BAND	- 1										1			OMEGA	A 1.4
ARAGE ARRORATION OF THE PRESS = 150 MARGE ARRORATION OF THE PRESS	SOURCE	T 8	¦	PERA	TIONS				~	METEC	ROLOG		1			NO.	01
R FIELD MOISE LEWELS R FIELD MOISE LEWELS C C C C C C C C C C C C C C C C C C C	/M321-1 1EST ESSURIZED CA	IER,		240	E E				^ ~	HEF BAR	PRES	# #	15 760		~ ~	25 JAN	28
	AKAGE, WIRCH R FIELD NOIS	RAFT SE LEVELS	- -						• •	REL	I HOH			×.	^ ^	PAGE	23
		1															POINT
	•	:		2		C	9		A .		•				:	•	⋖ 6
	• •	۱۱۱ • منام		• •	۰۰	٠,	••	• •	• «				• •			• •	s U
	•	•		•	•	•	•	·	•		•	•	•	•	•	•	01
		• •			· ·	υ ,		• •	₹ .				• •	• •		• •	w 1L
	(6		ښ	•	-	Ç	•	-07	A		•				•		.
	•	•		•	•	•	•	•	•			•	•	•	•	•	
	•		_	٩.		U	•		ď		•	•	•	•	•	•	
	•	•	_	•			\	\$	•			•	•	•		•	_
	•	· ·		•	•	٠	•	•	•		•	•	•	•	•	•	_
	•	٠		•	بر	• (•	•	• <		•		•	•	•	•	
			•		7	•	_			•			•				
	•			•	3	U	•		A.		•		•	•	•	•	_
	•	•			۰	•	•	•	•		•	•	•	•	•	•	_
	9.	•	w.		•	ပ္	•	•	⋖		•		•	•		•	
	•	-1.	L		-	•	• ,		•	4			•	•	•	•	
													•	•			
	-	•	ш	•	a	•		æ	⋖		•	•	•	•	•	•	_
	•	•		•		•	•	·	•		•		•	•	•	•	_
	•	•		•	•	ပ္	•	•	⋖		•	•	•	•	•	•	
		•	L	•		•		•	• <		•	•	•	•	•	•	
					_									•			
		ا اعلام	w		-	ن .	•	0	•	⋖	•		•	•	•	•	_
	•		1	•	•	•		-	•				•	•	•	•	_
E E C C G B A A A A A A A A A A A A A A A A A A	-	·	ш	•	ò	•	•	•	•	⋖	•	•	•	•	•	•	_
E E C C B B A A A A A A A A A A A A A A A A	•	-	(•	<u>.</u>	•	•	÷	•		•		•	•	•	•	_
E E E E			F.	:		5	:		: '	A	•					• • • •	
E E E				• •	\. \.	. 0	• •	α	· «		• (• (• •	. •	• •	, .	
A A A A A A A A A A A A A A A A A A A				•			•	•	• 1	_			• •	•		•	
E E E E E E E E E E E E E E E E E E E		<u>س</u> ا-		••	•	ပ်		•	A		•		•	•	. •	•	_
	•	•			•	•		٠	•		•	•	•	•	•	•	_
		E	:	Q			:	8			•		:				_
1 1.5 2 3 4 5 6 8 1 1.5 2 3 4 5 6 9 1	1 1	2		+	!	;	-	1	5			1 1 1	1	•	-	1.5	_



	HZ OCTAVE BAND		1	1	1		1	!		1		1	0	OMEGA TEST B	1.4 A-000-
NOISE SOURCE/SUBJECT: AF/H321-1 TESTER, PRESSURIZED CABIN		OPER#	OPERATION: 2400 RPM					METEOROLOGY: TEMP BAR PRESS	OLOGY		15 C 760 M	(<u>)</u> I	- A - A	RUN 0	_
LL.	. .							REL	HUMID	н	0		<u>a</u>	PAGE	* 2
	<i>c</i>			ď											POINT
	•		•												(6 0 (
. у ш	ر:	်	•	an—	₹ .	•	•	•	•	•	•	•		•	ပ <i>င</i>
lu)	- 0-	• •	• ;		٩.	• •	• •	• •	• •	• •					u u
— u	→ c	•			•	•	•	•	•	•	•	•		•	L
	_			_					•						
	٦	•		В	٩.	•	•	•	•	•		•		•	
· ·	ز	•	•	(40.	• <	•	•	•	•	•	•	•		•	
• •	<i>:f</i>	• •	• •		. •	• •	• •	• •	• •	• •				• •	
	Ċ		C	ď	A		•	•	:	•		:	•	•	
•••••••••••••••••••••••••••••••••••••••	اج	.20.	•	احر	•	•	•	•	•	•	•	•	•	•	
· •	Ċ,	, ,	٠ ن	œ ~	۹ .	•	•	•	•	•	•	•		•	
. w.	• •	•••	· .	- @	• •	٠.	• •	• •	• •	• •				• •	
•	•	•	•	•	•	•	•	•	٠	•	•	•	•	•	
Ε			3		:	Α	•	•	:		•	•			
		· ·	ن:	- co	• •	۰.		•	•	•				•	
	Ĺ		•	Ŀ	•		•	•	•	•			•	•	
اللا • •	0	•	٠ ن		۹.	•	•	•	•	•	•	•		•	
- 14	•	•	•	• a	•	•	•	•	•	•	•	•		•	
				•			•			•				•	
	•	•	ပ် •	Φ.	•	٠	•	•	•	•	•		•	•	
•	•	•	•	•	•	•	•	•	•	•				•	
•	•		:		•	•	•	•	•	•	•	•		•	
	•		• 0	•		• •	•	•	•	•	•	•	•	•	
•				•		•		•	•	•				•	
•	•	•	٠ ن	ω-	۹ .	•	•	•	•	•	•	•	•	•	
•	•	•	•	- 0		•	•	•	•	•		•		•	
	``	• •	• •	~	•	• •	• •	• •	• •	• •					
	 0				A	•	•	•	::	:	:	:	•	•	
1 1.5 2				«	; ; ;	4			- -	• • u	!		! ! ! !	(

NOISE SOURCE/SUBJECT: AF/M321-1 TESTER, PRESSURIZED CABIN	LEVEL CONTOURS (DB) HZ OCTAVE BAND			,		ı		OMEGA 1.4	5
	OFERATIONS 2400 RPM) METEOROLOGY:) TEMP) BAR PRESS	LOGY:	145 760 H	i in	1 EUN 02 000-001 1 EUN 02 02 03 04 05 05 05 05 05 05 05 05 05 05 05 05 05	=
FAR FIELD NOISE LEVELS				ן אבר ז) PAGE 24	į
								TNIOG (Ħ
		•	•				•	A (_
190 C	; ·	•	• (•	• •	• •	•	•	
200 (G . F.			Α.		• •	• •	• •	• •	
210 (6	,	/						F (
	•	•		•	•	•	•		
•	<u>.</u>		ء • • • • • • • • • • • • • • • • • • •	•	•	•	•	•	
230 (. G . F	•		٠٠.	• •	• •	• •	• •	• •	
	بر	بر ۰ ۰	?	•	•	•	•	•	
).cn								
250 (. 6 § 60 . E	0	о В	∢.	•	•	•	•	•	
	•	•	• <	•	•		•	•	
	•••	• •		• •	• •	• •	• •	•••	
270 (6F	a de la constant de l		A	• • • • • • • • • • • • • • • • • • • •				(*******	
	• (• •		•	•	•	•	•	
•				• •	• •	••	• •	• •	
	E . 0.	٠.	۷.	•	•	•	•	·	
300		•	•	•	•	•	•	•	
•									
310 (. 6 7		٠ •	⋖	•	•	• ·	•	•	
320 (. 6	• •	• •		• •		•	•	• •	
•	`		•	•	•	•	•	•	
330 (6E.	O	C B	A			• • • • • • • • • • • • • • • • • • • •	•	(
340 (E	0	B	••	• •		• •	• •	• •	
· .	``		•	•	•	•	•	•	
35U (• F • E • U	• •	В.	•	•	•	•	•	•	
360 (•	•	• • • • • • • • • • • • • • • • • • • •			•		
1 1.5 2 3	4 5 6	9	1.5	2 3	#	5 6	9	1.5	

